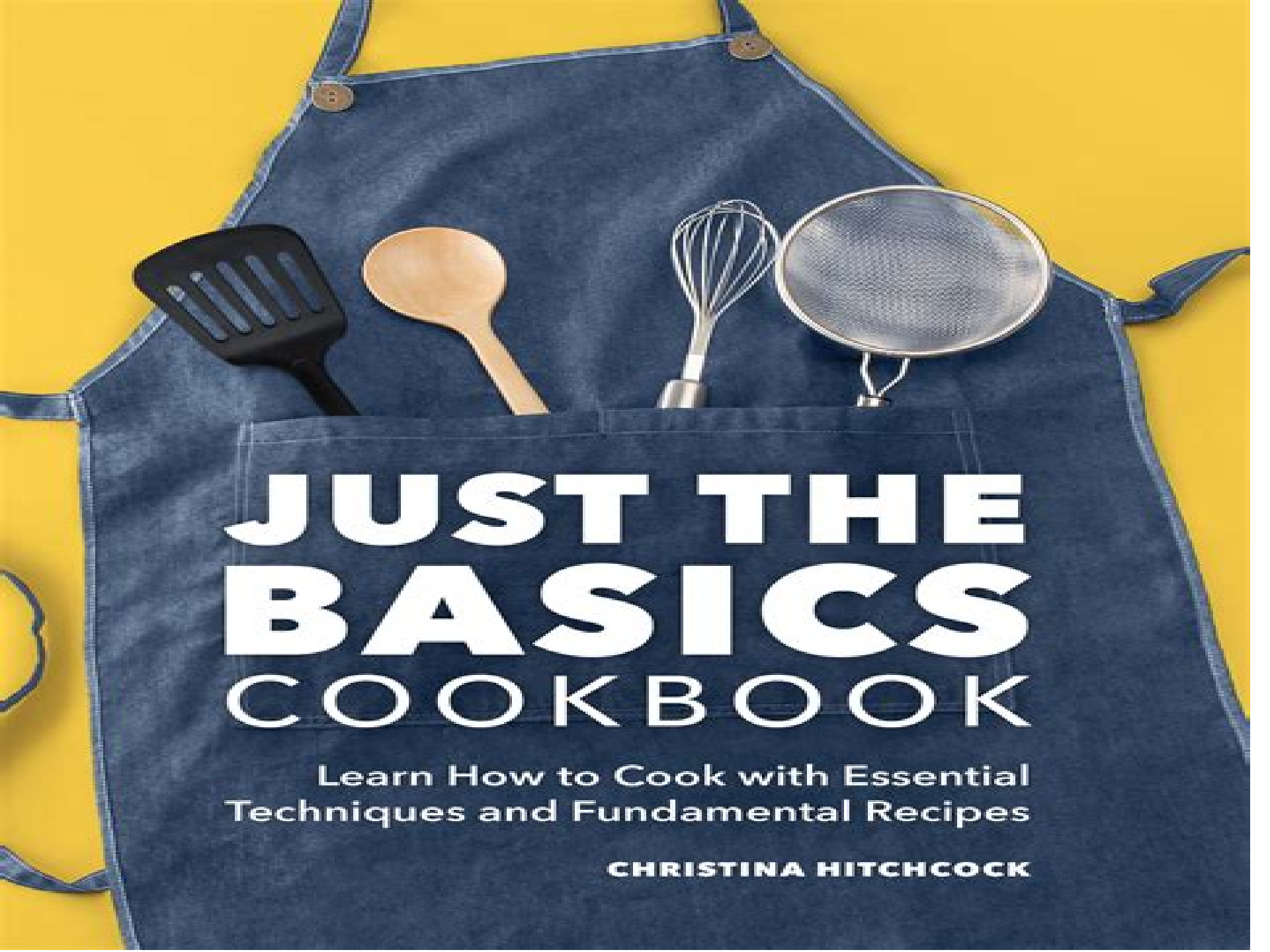




JUST THE BASICS COOKBOOK

Learn How to Cook with Essential
Techniques and Fundamental Recipes

CHRISTINA HITCHCOCK

Basic Cookbook

**Vivian Siahaan, Rismon Hasiholan
Sianipar**



Basic Cookbook:

The Basic Cookbook Flame Tree Publishing, 2008 Written prepared and photographed by an expert team of cookery writers home economists and photographers this new highly practical straightforward cookery book contains a library of simple recipes created for every cook of every ability Rodale's Basic Natural Foods Cookbook Charles Gerras, 1989 This new encyclopedic cooking reference gives readers up to the minute information on nutrition and exciting delicious healthful recipes With special advice on children labels and mail order sources it s a unique and indispensable guide to good wholesome food and lifelong health *The Basic Cookbook Guide* Lesley Pagett, 2019 Kitchen know how is easy to achieve once you know the basics Practical and compact The Basic Cookbook is the essential reference to simple home cooking and features all those timeless recipes you grew up with as well as the modern classics entering our cuisine today You ll learn everything you need to know to get started in the kitchen from boiling rice and scrambling eggs to making stock and baking the perfect roast with gravy as well as how to cook those traditional dishes your mother and grandmother used to make

Basic Cookbook , 2004 A collection of those versatile and simple recipes that you grew up with telling you how to successfully cook them at home This practical guide details directions for the novice chef on how to cook rice scramble eggs make stock bake a cake and much more **The Practice of Everyday Life** Michel de Certeau, Pierre Mayol, 1998 Volume 1 considers the uses to which social representation and modes of social behavior are put by individuals and groups describing the tactics available to the common man for reclaiming his own autonomy from the all pervasive forces of commerce politics and culture Volume 2 is based on on microhistories that move from the private sphere of dwelling cooking and homemaking to the public the experience of living in a neighborhood Delves into the subtle tactics of resistance and private practices that make living a subversive art Data Science For Programmer: A Project-Based Approach With Python GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2021-08-19 Book 1 Practical Data Science Programming for Medical Datasets Analysis and Prediction with Python GUI In this book you will implement two data science projects using Scikit Learn Scipy and other libraries with Python GUI In Project 1 you will learn how to use Scikit Learn NumPy Pandas Seaborn and other libraries to perform how to predict early stage diabetes using Early Stage Diabetes Risk Prediction Dataset provided by Kaggle This dataset contains the sign and symptom data of newly diabetic or would be diabetic patient This has been collected using direct questionnaires from the patients of Sylhet Diabetes Hospital in Sylhet Bangladesh and approved by a doctor You will develop a GUI using PyQt5 to plot distribution of features feature importance cross validation score and prediced values versus true values The machine learning models used in this project are Adaboost Random Forest Gradient Boosting Logistic Regression and Support Vector Machine In Project 2 you will learn how to use Scikit Learn NumPy Pandas and other libraries to perform how to analyze and predict breast cancer using Breast Cancer Prediction Dataset provided by Kaggle Worldwide breast cancer is the most common type of cancer in women and the second highest in terms of mortality rates

Diagnosis of breast cancer is performed when an abnormal lump is found from self examination or x ray or a tiny speck of calcium is seen on an x ray After a suspicious lump is found the doctor will conduct a diagnosis to determine whether it is cancerous and if so whether it has spread to other parts of the body This breast cancer dataset was obtained from the University of Wisconsin Hospitals Madison from Dr William H Wolberg You will develop a GUI using PyQt5 to plot distribution of features pairwise relationship test scores predicted values versus true values confusion matrix and decision boundary The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree and Support Vector Machine

Book 2 Step by Step Tutorials For Data Science With Python GUI Traffic And Heart Attack Analysis And Prediction In this book you will implement two data science projects using Scikit Learn Scipy and other libraries with Python GUI In Chapter 1 you will learn how to use Scikit Learn Scipy and other libraries to perform how to predict traffic number of vehicles in four different junctions using Traffic Prediction Dataset provided by Kaggle This dataset contains 48 1k 48120 observations of the number of vehicles each hour in four different junctions 1 Date Time 2 Junction 3 Vehicles and 4 ID In Chapter 2 you will learn how to use Scikit Learn NumPy Pandas and other libraries to perform how to analyze and predict heart attack using Heart Attack Analysis Prediction Dataset provided by Kaggle

Book 3 BRAIN TUMOR Analysis Classification and Detection Using Machine Learning and Deep Learning with Python GUI In this project you will learn how to use Scikit Learn TensorFlow Keras NumPy Pandas Seaborn and other libraries to implement brain tumor classification and detection with machine learning using Brain Tumor dataset provided by Kaggle This dataset contains five first order features Mean the contribution of individual pixel intensity for the entire image Variance used to find how each pixel varies from the neighboring pixel 0 Standard Deviation the deviation of measured Values or the data from its mean Skewness measures of symmetry and Kurtosis describes the peak of e g a frequency distribution It also contains eight second order features Contrast Energy ASM Angular second moment Entropy Homogeneity Dissimilarity Correlation and Coarseness The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree and Support Vector Machine The deep learning models used in this project are MobileNet and ResNet50 In this project you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix training loss and training accuracy

FOUR PROJECTS: MySQL and SQLite For Data Science with Python GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-06-29

PROJECT 1 SQLITE AND DATA SCIENCE QUERIES AND VISUALIZATION WITH PYTHON GUI In this project you will develop GUI with PyQt5 to utilize Push Button Combo Box Table Widget Line Edit and Widget read and create SQLite database and every table in it plot case distribution of film release year film rating rental duration and categorize film length plot rating variable against rental_duration variable in stacked bar plots plot length variable against rental_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter

of payment plot which year month week days of week and quarter have most payment amount read film list by joining five tables category film_category film_actor film and actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue costumers plot which customer have least and most overdue days plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005 This project uses the Sakila sample database which is a fictitious database designed to represent a DVD rental store The tables of the database include film film_category actor film_actor customer rental payment and inventory among others You can download the SQLite from <https://dev.mysql.com/doc/sakila/en> PROJECT 2 MYSQL AND DATA SCIENCE QUERIES AND VISUALIZATION WITH PYTHON GUI In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of film release year film rating rental duration and categorize film length plot rating variable against rental_duration variable in stacked bar plots plot length variable against rental_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter of payment plot which year month week days of week and quarter have most payment amount read film list by joining five tables category film_category film_actor film and actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue costumers plot which customer have least and most overdue days plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005 This project uses the Sakila sample database which is a fictitious database designed to represent a DVD rental store The tables of the database include film film_category actor film_actor customer rental payment and inventory among others You can download the MySQL from <https://dev.mysql.com/doc/sakila/en> PROJECT 3 MYSQL FOR DATA ANALYSIS AND VISUALIZATION WITH PYTHON GUI In this project you will use the Northwind database which is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting The Northwind dataset includes sample data for the following Suppliers Suppliers and vendors of Northwind Customers Customers who buy products from Northwind Employees Employee details of Northwind traders Products Product information Shippers The details of the shippers who ship the products from the traders to the end customers Orders and Order_Details Sales Order transactions taking place between the customers the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales

by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by supplier top 10 sales by supplier bottom 10 sales by customer country top 10 sales by customer country bottom 10 sales by supplier country top 10 sales by supplier country average amount by month with mean and ewm average amount by every month amount feature over June 1997 amount feature over 1998 and all amount feature PROJECT 4 SQLITE FOR DATA ANALYSIS AND VISUALIZATION WITH PYTHON GUI In this project you will use SQLite version of Northwind database which is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting The Northwind dataset includes sample data for the following Suppliers Suppliers and vendors of Northwind Customers Customers who buy products from Northwind Employees Employee details of Northwind traders Products Product information Shippers The details of the shippers who ship the products from the traders to the end customers Orders and Order_Details Sales Order transactions taking place between the customers the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by supplier top 10 sales by supplier bottom 10 sales by customer country top 10 sales by customer country bottom 10 sales by supplier country top 10 sales by supplier country average amount by month with mean and ewm average amount by every month amount feature over June 1997 amount feature over 1998 and all amount feature

STUDENT ACADEMIC PERFORMANCE ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON Vivian Siahhaan, Rismon Hasiholan Sianipar, 2022-03-20 The dataset used in this project consists of student achievement in secondary education of two Portuguese schools The data attributes include student grades demographic social and school related features and it was collected by using school reports and questionnaires Two datasets are provided regarding the performance in two distinct subjects Mathematics mat and Portuguese language por In the two datasets were modeled under binary five level classification and regression tasks Important note the target attribute G3 has a strong correlation with attributes G2 and G1 This occurs because G3 is the final year grade issued at the 3rd period while G1 and G2 correspond to the 1st and 2nd period grades It is more difficult to predict G3 without G2 and G1 but such prediction is much more useful Attributes in the dataset are as follows school student s school binary GP Gabriel Pereira or MS Mousinho da Silveira sex student s sex binary F female or M male age student s age numeric from 15 to 22 address student s home address type binary U urban or R rural famsize family size binary LE3 less or equal to 3 or GT3 greater than 3 Pstatus parent s cohabitation status binary T living together or A apart Medu mother s education numeric 0 none 1 primary education 4th grade 2 5th to 9th grade 3 secondary education or 4 higher education Fedu father s education numeric 0 none 1 primary

education 4th grade 2 5th to 9th grade 3 secondary education or 4 higher education Mjob mother s job nominal teacher
 health care related civil services e g administrative or police at_home or other Fjob father s job nominal teacher health care
 related civil services e g administrative or police at_home or other reason reason to choose this school nominal close to home
 school reputation course preference or other guardian student s guardian nominal mother father or other traveltime home to
 school travel time numeric 1 1 hour studytime weekly study time numeric 1 10 hours failures number of past class failures
 numeric n if 1 *In-Depth Tutorials: Deep Learning Using Scikit-Learn, Keras, and TensorFlow with Python GUI* Vivian
 Siahaan, Rismon Hasiholan Sianipar, 2021-06-05 BOOK 1 LEARN FROM SCRATCH MACHINE LEARNING WITH PYTHON
 GUI In this book you will learn how to use NumPy Pandas OpenCV Scikit Learn and other libraries to how to plot graph and
 to process digital image Then you will learn how to classify features using Perceptron Adaline Logistic Regression LR
 Support Vector Machine SVM Decision Tree DT Random Forest RF and K Nearest Neighbor KNN models You will also learn
 how to extract features using Principal Component Analysis PCA Linear Discriminant Analysis LDA Kernel Principal
 Component Analysis KPCA algorithms and use them in machine learning In Chapter 1 you will learn Tutorial Steps To Create
 A Simple GUI Application Tutorial Steps to Use Radio Button Tutorial Steps to Group Radio Buttons Tutorial Steps to Use
 CheckBox Widget Tutorial Steps to Use Two CheckBox Groups Tutorial Steps to Understand Signals and Slots Tutorial Steps
 to Convert Data Types Tutorial Steps to Use Spin Box Widget Tutorial Steps to Use ScrollBar and Slider Tutorial Steps to Use
 List Widget Tutorial Steps to Select Multiple List Items in One List Widget and Display It in Another List Widget Tutorial
 Steps to Insert Item into List Widget Tutorial Steps to Use Operations on Widget List Tutorial Steps to Use Combo Box
 Tutorial Steps to Use Calendar Widget and Date Edit and Tutorial Steps to Use Table Widget In Chapter 2 you will learn
 Tutorial Steps To Create A Simple Line Graph Tutorial Steps To Create A Simple Line Graph in Python GUI Tutorial Steps To
 Create A Simple Line Graph in Python GUI Part 2 Tutorial Steps To Create Two or More Graphs in the Same Axis Tutorial
 Steps To Create Two Axes in One Canvas Tutorial Steps To Use Two Widgets Tutorial Steps To Use Two Widgets Each of
 Which Has Two Axes Tutorial Steps To Use Axes With Certain Opacity Levels Tutorial Steps To Choose Line Color From
 Combo Box Tutorial Steps To Calculate Fast Fourier Transform Tutorial Steps To Create GUI For FFT Tutorial Steps To
 Create GUI For FFT With Some Other Input Signals Tutorial Steps To Create GUI For Noisy Signal Tutorial Steps To Create
 GUI For Noisy Signal Filtering and Tutorial Steps To Create GUI For Wav Signal Filtering In Chapter 3 you will learn Tutorial
 Steps To Convert RGB Image Into Grayscale Tutorial Steps To Convert RGB Image Into YUV Image Tutorial Steps To Convert
 RGB Image Into HSV Image Tutorial Steps To Filter Image Tutorial Steps To Display Image Histogram Tutorial Steps To
 Display Filtered Image Histogram Tutorial Steps To Filter Image With CheckBoxes Tutorial Steps To Implement Image
 Thresholding and Tutorial Steps To Implement Adaptive Image Thresholding You will also learn Tutorial Steps To Generate
 And Display Noisy Image Tutorial Steps To Implement Edge Detection On Image Tutorial Steps To Implement Image

Segmentation Using Multiple Thresholding and K Means Algorithm Tutorial Steps To Implement Image Denoising Tutorial Steps To Detect Face Eye and Mouth Using Haar Cascades Tutorial Steps To Detect Face Using Haar Cascades with PyQt Tutorial Steps To Detect Eye and Mouth Using Haar Cascades with PyQt Tutorial Steps To Extract Detected Objects Tutorial Steps To Detect Image Features Using Harris Corner Detection Tutorial Steps To Detect Image Features Using Shi Tomasi Corner Detection Tutorial Steps To Detect Features Using Scale Invariant Feature Transform SIFT and Tutorial Steps To Detect Features Using Features from Accelerated Segment Test FAST In Chapter 4 In this tutorial you will learn how to use Pandas NumPy and other libraries to perform simple classification using perceptron and Adaline adaptive linear neuron The dataset used is Iris dataset directly from the UCI Machine Learning Repository You will learn Tutorial Steps To Implement Perceptron Tutorial Steps To Implement Perceptron with PyQt Tutorial Steps To Implement Adaline ADaptive LInear NEuron and Tutorial Steps To Implement Adaline with PyQt In Chapter 5 you will learn how to use the scikit learn machine learning library which provides a wide variety of machine learning algorithms via a user friendly Python API and to perform classification using perceptron Adaline adaptive linear neuron and other models The dataset used is Iris dataset directly from the UCI Machine Learning Repository You will learn Tutorial Steps To Implement Perceptron Using Scikit Learn Tutorial Steps To Implement Perceptron Using Scikit Learn with PyQt Tutorial Steps To Implement Logistic Regression Model Tutorial Steps To Implement Logistic Regression Model with PyQt Tutorial Steps To Implement Logistic Regression Model Using Scikit Learn with PyQt Tutorial Steps To Implement Support Vector Machine SVM Using Scikit Learn Tutorial Steps To Implement Decision Tree DT Using Scikit Learn Tutorial Steps To Implement Random Forest RF Using Scikit Learn and Tutorial Steps To Implement K Nearest Neighbor KNN Using Scikit Learn In Chapter 6 you will learn how to use Pandas NumPy Scikit Learn and other libraries to implement different approaches for reducing the dimensionality of a dataset using different feature selection techniques You will learn about three fundamental techniques that will help us to summarize the information content of a dataset by transforming it onto a new feature subspace of lower dimensionality than the original one Data compression is an important topic in machine learning and it helps us to store and analyze the increasing amounts of data that are produced and collected in the modern age of technology You will learn the following topics Principal Component Analysis PCA for unsupervised data compression Linear Discriminant Analysis LDA as a supervised dimensionality reduction technique for maximizing class separability Nonlinear dimensionality reduction via Kernel Principal Component Analysis KPCA You will learn Tutorial Steps To Implement Principal Component Analysis PCA Tutorial Steps To Implement Principal Component Analysis PCA Using Scikit Learn Tutorial Steps To Implement Principal Component Analysis PCA Using Scikit Learn with PyQt Tutorial Steps To Implement Linear Discriminant Analysis LDA Tutorial Steps To Implement Linear Discriminant Analysis LDA with Scikit Learn Tutorial Steps To Implement Linear Discriminant Analysis LDA Using Scikit Learn with PyQt Tutorial Steps To Implement Kernel Principal Component Analysis KPCA Using Scikit

Learn and Tutorial Steps To Implement Kernel Principal Component Analysis KPCA Using Scikit Learn with PyQt In Chapter 7 you will learn how to use Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten digits using MNIST dataset You will learn Tutorial Steps To Load MNIST Dataset Tutorial Steps To Load MNIST Dataset with PyQt Tutorial Steps To Implement Perceptron With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Perceptron With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Perceptron With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Logistic Regression LR Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Logistic Regression LR Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Logistic Regression LR Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Tutorial Steps To Implement Support Vector Machine SVM Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Support Vector Machine SVM Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Decision Tree DT Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Decision Tree DT Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Decision Tree DT Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Random Forest RF Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Random Forest RF Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Random Forest RF Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement K Nearest Neighbor KNN Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement K Nearest Neighbor KNN Model With LDA Feature Extractor on MNIST Dataset Using PyQt and Tutorial Steps To Implement K Nearest Neighbor KNN Model With KPCA Feature Extractor on MNIST Dataset Using PyQt

BOOK 2 THE PRACTICAL GUIDES ON DEEP LEARNING USING SCIKIT LEARN KERAS AND TENSORFLOW WITH PYTHON GUI In this book you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on recognizing traffic signs using GTSRB dataset detecting brain tumor using Brain Image MRI dataset classifying gender and recognizing facial expression using FER2013 dataset In Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten digits using MNIST dataset with PyQt You will build a GUI application for this purpose In Chapter 3 you will learn how to perform recognizing traffic signs using GTSRB dataset from Kaggle There are several different types of traffic signs like speed limits no entry traffic signals turn left or right children crossing no passing of heavy vehicles etc Traffic signs classification is the process of identifying which class a traffic sign belongs to In this Python project you will build a deep neural network model that can classify traffic signs in image into different categories With this model

you will be able to read and understand traffic signs which are a very important task for all autonomous vehicles You will build a GUI application for this purpose In Chapter 4 you will learn how to perform detecting brain tumor using Brain Image MRI dataset provided by Kaggle <https://www.kaggle.com/navoneel/brain-mri-images> for brain tumor detection using CNN model You will build a GUI application for this purpose In Chapter 5 you will learn how to perform classifying gender using dataset provided by Kaggle <https://www.kaggle.com/cashutosh/gender-classification-dataset> using MobileNetV2 and CNN models You will build a GUI application for this purpose In Chapter 6 you will learn how to perform recognizing facial expression using FER2013 dataset provided by Kaggle <https://www.kaggle.com/nicolejyt/facialexpressionrecognition> using CNN model You will also build a GUI application for this purpose

BOOK 3 STEP BY STEP TUTORIALS ON DEEP LEARNING USING SCIKIT LEARN KERAS AND TENSORFLOW WITH PYTHON GUI

In this book you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on classifying fruits classifying cats dogs detecting furnitures and classifying fashion In Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram Then you will learn how to use OpenCV NumPy and other libraries to perform feature extraction with Python GUI PyQt The feature detection techniques used in this chapter are Harris Corner Detection Shi Tomasi Corner Detector and Scale Invariant Feature Transform SIFT In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fruits using Fruits 360 dataset provided by Kaggle <https://www.kaggle.com/moltean/fruits> code using Transfer Learning and CNN models You will build a GUI application for this purpose In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying cats dogs using dataset provided by Kaggle <https://www.kaggle.com/chetankv/dogs-cats-images> using Using CNN with Data Generator You will build a GUI application for this purpose In Chapter 4 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting furnitures using Furniture Detector dataset provided by Kaggle <https://www.kaggle.com/akkithetechie/furniture-detector> using VGG16 model You will build a GUI application for this purpose In Chapter 5 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fashion using Fashion MNIST dataset provided by Kaggle <https://www.kaggle.com/zalando-research/fashionmnist> code using CNN model You will build a GUI application for this purpose

BOOK 4 Project Based Approach On DEEP LEARNING Using Scikit Learn Keras And TensorFlow with Python GUI

In this book implement deep learning on detecting vehicle license plates recognizing sign language and detecting surface crack using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting vehicle license plates using Car License Plate Detection dataset provided by Kaggle <https://www.kaggle.com/andrewmvd/car-plate-detection> download In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV

Pandas NumPy and other libraries to perform sign language recognition using Sign Language Digits Dataset provided by Kaggle <https://www.kaggle.com/ardamavi/sign-language-digits-dataset/download> In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting surface crack using Surface Crack Detection provided by Kaggle <https://www.kaggle.com/arunrk7/surface-crack-detection/download> BOOK 5 Hands On Guide To IMAGE CLASSIFICATION Using Scikit Learn Keras And TensorFlow with PYTHON GUI In this book implement deep learning based image classification on detecting face mask classifying weather and recognizing flower using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting face mask using Face Mask Detection Dataset provided by Kaggle <https://www.kaggle.com/omkargurav/face-mask-dataset/download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify weather using Multi class Weather Dataset provided by Kaggle <https://www.kaggle.com/pratik2901/multiclass-weather-dataset/download> In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize flower using Flowers Recognition dataset provided by Kaggle <https://www.kaggle.com/alxmamaev/flowers-recognition/download> BOOK 6 Step by Step Tutorial IMAGE CLASSIFICATION Using Scikit Learn Keras And TensorFlow with PYTHON GUI In this book implement deep learning based image classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/slothkong/10-monkey-species/download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/sanikamal/rock-paper-scissors-dataset/download> In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify airplane car and ship using Multiclass image dataset airplane car ship dataset provided by Kaggle <https://www.kaggle.com/abtabm/multiclassimage-dataset-airplanecar>

DATA SCIENCE WITH MYSQL, SQLITE, POSTGRESQL, AND SQL SERVER USING PYTHON GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-10-03 Book 1 MYSQL AND DATA SCIENCE QUERIES AND VISUALIZATION WITH PYTHON GUI In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of film release year film rating rental duration and categorize film length plot rating variable against rental_duration variable in stacked bar plots plot length variable against rental_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter of payment plot which year month week days of

week and quarter have most payment amount read film list by joining five tables category film_category film_actor film and actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue costumers plot which customer have least and most overdue days plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005 This project uses the Sakila sample database which is a fictitious database designed to represent a DVD rental store The tables of the database include film film_category actor film_actor customer rental payment and inventory among others You can download the MySQL from <https://dev.mysql.com/doc/sakila/en> Book 2 SQLITE FOR DATA ANALYST AND DATA SCIENTIST WITH PYTHON GUI In this project we will use the SQLite version of BikeStores database as a sample database to help you work with MySQL quickly and effectively The stores table includes the store s information Each store has a store name contact information such as phone and email and an address including street city state and zip code The staffs table stores the essential information of staffs including first name last name It also contains the communication information such as email and phone A staff works at a store specified by the value in the store_id column A store can have one or more staffs A staff reports to a store manager specified by the value in the manager_id column If the value in the manager_id is null then the staff is the top manager If a staff no longer works for any stores the value in the active column is set to zero The categories table stores the bike s categories such as children bicycles comfort bicycles and electric bikes The products table stores the product s information such as name brand category model year and list price Each product belongs to a brand specified by the brand_id column Hence a brand may have zero or many products Each product also belongs a category specified by the category_id column Also each category may have zero or many products The customers table stores customer s information including first name last name phone email street city state zip code and photo path The orders table stores the sales order s header information including customer order status order date required date shipped date It also stores the information on where the sales transaction was created store and who created it staff Each sales order has a row in the sales_orders table A sales order has one or many line items stored in the order_items table The order_items table stores the line items of a sales order Each line item belongs to a sales order specified by the order_id column A sales order line item includes product order quantity list price and discount The stocks table stores the inventory information i e the quantity of a particular product in a specific store Book 3 ZERO TO MASTERY THE COMPLETE GUIDE TO LEARNING POSTGRESQL WITH PYTHON GUI This book uses the PostgreSQL version of MySQL based Northwind database The Northwind database is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers

orders inventory purchasing suppliers shipping employees and single entry accounting The Northwind database has since been ported to a variety of non Microsoft databases including PostgreSQL The Northwind dataset includes sample data for the following Suppliers Suppliers and vendors of Northwind Customers Customers who buy products from Northwind Employees Employee details of Northwind traders Products Product information Shippers The details of the shippers who ship the products from the traders to the end customers and Orders and Order_Details Sales Order transactions taking place between the customers the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by supplier top 10 sales by supplier bottom 10 sales by customer country top 10 sales by customer country bottom 10 sales by supplier country top 10 sales by supplier country average amount by month with mean and ewm average amount by every month amount feature over June 1997 amount feature over 1998 and all amount feature Book 4 ZERO TO MASTERY THE COMPLETE GUIDE TO LEARNING SQL SERVER AND DATA SCIENCE WITH PYTHON GUI In this project we provide you with a SQL SERVER version of an Oracle sample database named OT which is based on a global fictitious company that sells computer hardware including storage motherboard RAM video card and CPU The company maintains the product information such as name description standard cost list price and product line It also tracks the inventory information for all products including warehouses where products are available Because the company operates globally it has warehouses in various locations around the world The company records all customer information including name address and website Each customer has at least one contact person with detailed information including name email and phone The company also places a credit limit on each customer to limit the amount that customer can owe Whenever a customer issues a purchase order a sales order is created in the database with the pending status When the company ships the order the order status becomes shipped In case the customer cancels an order the order status becomes canceled In addition to the sales information the employee data is recorded with some basic information such as name email phone job title manager and hire date In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of order date by year quarter month week and day the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by category top 10 sales by category bottom 10 sales by status top 10 sales by status bottom 10 sales by customer city top 10 sales by customer city bottom 10 sales by customer state top 10 sales by customer state average amount by month with mean and EWM average amount by every month amount feature over June 2016 amount feature over 2017 and amount payment in all years

FULL SOURCE CODE: POSTGRESQL AND DATA SCIENCE FOR PROGRAMMERS WITH PYTHON GUI Vivian

Siahaan,Rismon Hasiholan Sianipar,2022-09-19 This project uses the PostgreSQL version of MySQL based Sakila sample

database which is a fictitious database designed to represent a DVD rental store. The tables of the database include film, film_category, actor, film_actor, customer, rental, payment, and inventory among others. You can download the database from <https://dev.mysql.com/doc/sakila/en/>. In this project, you will write Python script to create every table and insert rows of data into each of them. You will develop GUI with PyQt5 to each table in the database. You will also create GUI to plot case distribution of film release year, film rating, rental duration, and categorize film length. Plot rating variable against rental_duration variable in stacked bar plots. Plot length variable against rental_duration variable in stacked bar plots. Read payment table. Plot case distribution of Year, Day, Month, Week, and Quarter of payment. Plot which year, month, week, days of week, and quarter have most payment amount. Read film list by joining five tables: category, film_category, film_actor, film, and actor. Plot case distribution of top 10 and bottom 10 actors. Plot which film title have least and most sales. Plot which actor have least and most sales. Plot which film category have least and most sales. Plot case distribution of top 10 and bottom 10 overdue customers. Plot which store have most sales. Plot average payment amount by month with mean and EWM, and plot payment amount over June 2005.

FULL SOURCE CODE: POSTGRESQL FOR DATA ANALYTICS AND VISUALIZATION WITH PYTHON GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-09-13. In this project, we provide you with a PostgreSQL version of an Oracle sample database named OT, which is based on a global fictitious company that sells computer hardware including storage, motherboard, RAM, video card, and CPU. The company maintains the product information such as name, description, standard cost, list price, and product line. It also tracks the inventory information for all products including warehouses where products are available. Because the company operates globally, it has warehouses in various locations around the world. The company records all customer information including name, address, and website. Each customer has at least one contact person with detailed information including name, email, and phone. The company also places a credit limit on each customer to limit the amount that customer can owe. Whenever a customer issues a purchase order, a sales order is created in the database with the pending status. When the company ships the order, the order status becomes shipped. In case the customer cancels an order, the order status becomes canceled. In addition to the sales information, the employee data is recorded with some basic information such as name, email, phone, job title, manager, and hire date. In this project, you will write Python script to create every table and insert rows of data into each of them. You will develop GUI with PyQt5 to each table in the database. You will also create GUI to plot case distribution of order date by year, quarter, month, week, and day; the distribution of amount by year, quarter, month, week, day, and hour; the distribution of bottom 10 sales by product; top 10 sales by product; bottom 10 sales by customer; top 10 sales by customer; bottom 10 sales by category; top 10 sales by category; bottom 10 sales by status; top 10 sales by status; bottom 10 sales by customer; city; top 10 sales by customer; city; bottom 10 sales by customer; state; top 10 sales by customer; state; average amount by month with mean and EWM; average amount by every month; amount feature over June 2016; amount feature over 2017; and amount payment in all years.

ANALYSIS AND PREDICTION PROJECTS USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON

Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-02-17

PROJECT 1 DEFAULT LOAN PREDICTION BASED ON CUSTOMER BEHAVIOR

Using Machine Learning and Deep Learning with Python

In finance default is failure to meet the legal obligations or conditions of a loan for example when a home buyer fails to make a mortgage payment or when a corporation or government fails to pay a bond which has reached maturity. A national or sovereign default is the failure or refusal of a government to repay its national debt.

The dataset used in this project belongs to a Hackathon organized by Univ AI. All values were provided at the time of the loan application.

Following are the features in the dataset: Income, Age, Experience, Married, Single, House_Ownership, Car_Ownership, Profession, CITY, STATE, CURRENT_JOB_YRS, CURRENT_HOUSE_YRS, and Risk_Flag.

The Risk_Flag indicates whether there has been a default in the past or not.

The machine learning models used in this project are: K Nearest Neighbor, Random Forest, Naive Bayes, Logistic Regression, Decision Tree, Support Vector Machine, Adaboost, LGBM classifier, Gradient Boosting, XGB classifier, MLP classifier, and CNN 1D.

Finally, you will plot boundary, decision, ROC distribution of features, feature importance, cross validation score, and predicted values versus true values, confusion matrix, learning curve, performance of the model, scalability of the model, training loss, and training accuracy.

PROJECT 2 AIRLINE PASSENGER SATISFACTION

Analysis and Prediction Using Machine Learning and Deep Learning with Python

The dataset used in this project contains an airline passenger satisfaction survey. In this case, you will determine what factors are highly correlated to a satisfied or dissatisfied passenger and predict passenger satisfaction.

Below are the features in the dataset:

- Gender: Gender of the passengers (Female, Male)
- Customer Type: The customer type (Loyal customer, disloyal customer)
- Age: The actual age of the passengers
- Type of Travel: Purpose of the flight of the passengers (Personal Travel, Business Travel)
- Class: Travel class in the plane of the passengers (Business, Eco, Eco Plus)
- Flight distance: The flight distance of this journey
- Inflight wifi service: Satisfaction level of the inflight wifi service (0: Not Applicable, 1-5)
- Departure Arrival time convenient: Satisfaction level of Departure Arrival time convenient
- Ease of Online booking: Satisfaction level of online booking
- Gate location: Satisfaction level of Gate location
- Food and drink: Satisfaction level of Food and drink
- Online boarding: Satisfaction level of online boarding
- Seat comfort: Satisfaction level of Seat comfort
- Inflight entertainment: Satisfaction level of inflight entertainment
- On board service: Satisfaction level of On board service
- Leg room service: Satisfaction level of Leg room service
- Baggage handling: Satisfaction level of baggage handling
- Check in service: Satisfaction level of Check in service
- Inflight service: Satisfaction level of inflight service
- Cleanliness: Satisfaction level of Cleanliness
- Departure Delay in Minutes: Minutes delayed when departure
- Arrival Delay in Minutes: Minutes delayed when Arrival
- Satisfaction: Airline satisfaction level (Satisfaction, neutral or dissatisfaction)

The machine learning models used in this project are: K Nearest Neighbor, Random Forest, Naive Bayes, Logistic Regression, Decision Tree, Support Vector Machine, LGBM classifier, Gradient Boosting, XGB classifier, MLP classifier, and CNN 1D.

Finally, you will plot boundary, decision, ROC distribution of features, feature importance,

cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

PROJECT 3 CREDIT CARD CHURNING CUSTOMER ANALYSIS AND PREDICTION USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON

The dataset used in this project consists of more than 10 000 customers mentioning their age salary marital_status credit card limit credit card category etc There are 20 features in the dataset In the dataset there are only 16 07% of customers who have churned Thus it s a bit difficult to train our model to predict churning customers Following are the features in the dataset Attrition_Flag Customer_Age Gender Dependent_count Education_Level Marital_Status Income_Category Card_Category Months_on_book Total_Relationship_Count Months_Inactive_12_mon Contacts_Count_12_mon Credit_Limit Total_Revolving_Bal Avg_Open_To_Buy Total_Amt_Chng_Q4_Q1 Total_Trans_Amt Total_Trans_Ct Total_Ct_Chng_Q4_Q1 and Avg_Utilization_Ratio The target variable is Attrition_Flag The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

PROJECT 4 MARKETING ANALYSIS AND PREDICTION USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON

This data set was provided to students for their final project in order to test their statistical analysis skills as part of a MSc in Business Analytics It can be utilized for EDA Statistical Analysis and Visualizations Following are the features in the dataset ID Customer s unique identifier Year_Birth Customer s birth year Education Customer s education level Marital_Status Customer s marital status Income Customer s yearly household income Kidhome Number of children in customer s household Teenhome Number of teenagers in customer s household Dt_Customer Date of customer s enrollment with the company Recency Number of days since customer s last purchase MntWines Amount spent on wine in the last 2 years MntFruits Amount spent on fruits in the last 2 years MntMeatProducts Amount spent on meat in the last 2 years MntFishProducts Amount spent on fish in the last 2 years MntSweetProducts Amount spent on sweets in the last 2 years MntGoldProds Amount spent on gold in the last 2 years NumDealsPurchases Number of purchases made with a discount NumWebPurchases Number of purchases made through the company s web site NumCatalogPurchases Number of purchases made using a catalogue NumStorePurchases Number of purchases made directly in stores NumWebVisitsMonth Number of visits to company s web site in the last month AcceptedCmp3 1 if customer accepted the offer in the 3rd campaign 0 otherwise AcceptedCmp4 1 if customer accepted the offer in the 4th campaign 0 otherwise AcceptedCmp5 1 if customer accepted the offer in the 5th campaign 0 otherwise AcceptedCmp1 1 if customer accepted the offer in the 1st campaign 0 otherwise AcceptedCmp2 1 if customer accepted the offer in the 2nd campaign 0 otherwise Response 1 if customer accepted the offer in the last campaign 0 otherwise Complain

1 if customer complained in the last 2 years 0 otherwise and Country Customer's location The machine and deep learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

PROJECT 5 METEOROLOGICAL DATA ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON

Meteorological phenomena are described and quantified by the variables of Earth's atmosphere temperature air pressure water vapour mass flow and the variations and interactions of these variables and how they change over time Different spatial scales are used to describe and predict weather on local regional and global levels The dataset used in this project consists of meteorological data with 96453 total number of data points and with 11 attributes columns Following are the columns in the dataset Formatted Date Summary Precip Type Temperature C Apparent Temperature C Humidity Wind Speed km/h Wind Bearing degrees Visibility km Pressure millibars and Daily Summary The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM classifier Gradient Boosting XGB classifier and MLP classifier Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

TRAVEL REVIEW RATING CLASSIFICATION AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-04-05 The dataset used in this project has been sourced from the Machine Learning Repository of University of California Irvine UC Irvine Travel Review Ratings Data Set This dataset is populated by capturing user ratings from Google reviews Reviews on attractions from 24 categories across Europe are considered Google user rating ranges from 1 to 5 and average user rating per category is calculated The attributes in the dataset are as follows Attribute 1 Unique user id Attribute 2 Average ratings on churches Attribute 3 Average ratings on resorts Attribute 4 Average ratings on beaches Attribute 5 Average ratings on parks Attribute 6 Average ratings on theatres Attribute 7 Average ratings on museums Attribute 8 Average ratings on malls Attribute 9 Average ratings on zoo Attribute 10 Average ratings on restaurants Attribute 11 Average ratings on pubs bars Attribute 12 Average ratings on local services Attribute 13 Average ratings on burger pizza shops Attribute 14 Average ratings on hotels other lodgings Attribute 15 Average ratings on juice bars Attribute 16 Average ratings on art galleries Attribute 17 Average ratings on dance clubs Attribute 18 Average ratings on swimming pools Attribute 19 Average ratings on gyms Attribute 20 Average ratings on bakeries Attribute 21 Average ratings on beauty Attribute 22 Average ratings on cafes Attribute 23 Average ratings on view points Attribute 24 Average ratings on monuments and Attribute 25 Average ratings on gardens The models used in this project are K Nearest Neighbor Random

Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier and MLP classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy

FULL SOURCE CODE: SQL SERVER FOR DATA ANALYTICS AND VISUALIZATION WITH PYTHON GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-10-06 This book uses SQL SERVER version of MySQL based Sakila sample database It is a fictitious database designed to represent a DVD rental store The tables of the database include film film_category actor customer rental payment and inventory among others The Sakila sample database is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Detailed information about the database can be found on website <https://dev.mysql.com/doc/index-other.html> In this project you will develop GUI using PyQt5 to read SQL SERVER database and every table in it read every actor in actor table read every film in films table plot case distribution of film release year film rating rental duration and categorize film length plot rating variable against rental_duration variable in stacked bar plots plot length variable against rental_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter of payment plot which year month week days of week and quarter have most payment amount read film list by joining five tables category film_category film_actor film and actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue customers plot which customer have least and most overdue days plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005 Step by Step Tutorial IMAGE CLASSIFICATION Using Scikit-Learn, Keras, And TensorFlow with PYTHON GUI Vivian Siahaan, 2023-06-21 In this book implement deep learning based image classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/slothkong/10-monkey-species/download> Here s an overview of the steps involved in classifying monkey species using the 10 Monkey Species dataset Dataset Preparation Download the 10 Monkey Species dataset from Kaggle and extract the files The dataset should consist of separate folders for each monkey species with corresponding images Load and Preprocess Images Use libraries such as OpenCV to load the images from the dataset Resize the images to a consistent size e g 224x224 pixels to ensure uniformity Split the Dataset Divide the dataset into training and testing sets Typically an 80 20 or 70 30 split is used where the larger portion is used for training and the smaller portion for testing the model s performance Label Encoding Encode

the categorical labels monkey species into numeric form This step is necessary to train a machine learning model as most algorithms expect numerical inputs

Feature Extraction Extract meaningful features from the images using techniques like deep learning or image processing algorithms This step helps in representing the images in a format that the machine learning model can understand

Model Training Use libraries like TensorFlow and Keras to train a machine learning model on the preprocessed data Choose an appropriate model architecture in this case MobileNetV2

Model Evaluation Evaluate the trained model on the testing set to assess its performance Metrics like accuracy precision recall and F1 score can be used to evaluate the model s classification performance

Predictions Use the trained model to make predictions on new unseen images Pass the images through the trained model and obtain the predicted labels for the monkey species

In chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using dataset provided by Kaggle <https://www.kaggle.com/sanikamal/rock-paper-scissors-dataset>

download Here s the outline of the steps

Step 1 Dataset Preparation Download the rock paper scissors dataset from Kaggle by visiting the provided link and clicking on the Download button Save the dataset to a local directory on your machine Extract the downloaded dataset to a suitable location This will create a folder containing the images for rock paper and scissors

Step 2 Data Preprocessing Import the required libraries TensorFlow Keras NumPy OpenCV and Pandas Load the dataset using OpenCV Iterate through the image files in the dataset directory and use OpenCV s cv2.imread function to load each image You can specify the image s file extension e.g. PNG and directory path Preprocess the images Resize the loaded images to a consistent size using OpenCV s cv2.resize function You may choose a specific width and height suitable for your model Prepare the labels Create a list or array to store the corresponding labels for each image rock paper or scissors This can be done based on the file naming convention or by mapping images to their respective labels using a dictionary

Step 3 Model Training Create a convolutional neural network CNN model using Keras Define a CNN architecture using Keras Sequential model or functional API This typically consists of convolutional layers pooling layers and dense layers Compile the model Specify the loss function e.g. categorical cross entropy and optimizer e.g. Adam using Keras compile function You can also define additional metrics to evaluate the model s performance Train the model Use Keras fit function to train the model on the preprocessed dataset Specify the training data labels batch size number of epochs and validation data if available This will optimize the model s weights based on the provided dataset Save the trained model Once the model training is complete you can save the trained model to disk using Keras save or save_weights function This allows you to load the model later for predictions or further training

Step 4 Model Evaluation Evaluate the trained model Use Keras evaluate function to assess the model s performance on a separate testing dataset Provide the testing data and labels to calculate metrics such as accuracy precision recall and F1 score This will help you understand how well the model generalizes to new unseen data Analyze the model s performance Interpret the evaluation metrics and analyze any potential areas of improvement You can also visualize

the confusion matrix or classification report to gain more insights into the model's predictions

Step 5 Prediction

Use the trained model for predictions. Load the saved model using Keras `load_model` function. Then pass new unseen images through the model to obtain predictions. Preprocess these images in the same way as the training images: resize, normalize, etc. Visualize and interpret predictions. Display the predicted labels alongside the corresponding images to see how well the model performs. You can use libraries like Matplotlib or OpenCV to show the images and their predicted labels. Additionally, you can calculate the accuracy of the model's predictions on the new dataset.

In chapter 3, you will learn how to use TensorFlow, Keras, Scikit-Learn, OpenCV, Pandas, NumPy, and other libraries to perform how to classify airplane, car, and ship using Multiclass image dataset: airplane, car, ship dataset provided by Kaggle: <https://www.kaggle.com/abtaabm/multiclassimage-dataset-airplane-car-ship>. Here are the outline steps:

- Import the required libraries: TensorFlow, Keras, Scikit-Learn, OpenCV, Pandas, NumPy.
- Load and preprocess the dataset.
- Read the images from the dataset folder.
- Resize the images to a fixed size.
- Store the images and corresponding labels.
- Split the dataset into training and testing sets.
- Split the data and labels into training and testing sets using a specified ratio.
- Encode the labels.
- Convert the categorical labels into numerical format.
- Perform one-hot encoding on the labels.
- Build MobileNetV2 model using Keras.
- Create a sequential model.
- Add convolutional layers with activation functions.
- Add pooling layers for downsampling.
- Flatten the output and add dense layers.
- Set the output layer with softmax activation.
- Compile and train the model.
- Compile the model with an optimizer and loss function.
- Train the model using the training data and labels.
- Specify the number of epochs and batch size.
- Evaluate the model.
- Evaluate the trained model using the testing data and labels.
- Calculate the accuracy of the model.
- Make predictions on new images.
- Load and preprocess a new image.
- Use the trained model to predict the label of the new image.
- Convert the predicted label from numerical format to categorical.

DATA ANALYSIS PROJECTS WITH MYSQL, SQLITE, POSTGRESQL, AND SQL SERVER USING PYTHON GUI

Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-10-26

PROJECT 1 FULL SOURCE CODE

POSTGRESQL AND DATA SCIENCE FOR PROGRAMMERS WITH PYTHON GUI

This project uses the PostgreSQL version of MySQL-based Sakila sample database, which is a fictitious database designed to represent a DVD rental store. The tables of the database include `film`, `film_category`, `actor`, `film_actor`, `customer`, `rental`, `payment`, and `inventory`, among others. You can download the database from <https://dev.mysql.com/doc/sakila/en/>. In this project, you will write Python script to create every table and insert rows of data into each of them. You will develop GUI with PyQt5 to each table in the database. You will also create GUI to plot case distribution of film release year, film rating, rental duration, and categorize film length. Plot rating variable against rental_duration variable in stacked bar plots. Plot length variable against rental_duration variable in stacked bar plots. Read payment table. Plot case distribution of Year, Day, Month, Week, and Quarter of payment. Plot which year, month, week, days of week, and quarter have most payment amount. Read film list by joining five tables: `category`, `film_category`, `film_actor`, `film`, and `actor`. Plot case distribution of top 10 and bottom 10 actors. Plot which film title have least and most sales.

plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue costumers plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005

PROJECT 2 FULL SOURCE CODE MYSQL FOR STUDENTS AND PROGRAMMERS WITH PYTHON GUI

In this project we provide you with a MySQL version of an Oracle sample database named OT which is based on a global fictitious company that sells computer hardware including storage motherboard RAM video card and CPU The company maintains the product information such as name description standard cost list price and product line It also tracks the inventory information for all products including warehouses where products are available Because the company operates globally it has warehouses in various locations around the world The company records all customer information including name address and website Each customer has at least one contact person with detailed information including name email and phone The company also places a credit limit on each customer to limit the amount that customer can owe Whenever a customer issues a purchase order a sales order is created in the database with the pending status When the company ships the order the order status becomes shipped In case the customer cancels an order the order status becomes canceled In addition to the sales information the employee data is recorded with some basic information such as name email phone job title manager and hire date In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of order date by year quarter month week and day the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by category top 10 sales by category bottom 10 sales by status top 10 sales by status bottom 10 sales by customer city top 10 sales by customer city bottom 10 sales by customer state top 10 sales by customer state average amount by month with mean and EWM average amount by every month amount feature over June 2016 amount feature over 2017 and amount payment in all years

PROJECT 3 ZERO TO MASTERY THE COMPLETE GUIDE TO LEARNING SQLITE AND PYTHON GUI

In this project we provide you with the SQLite version of The Oracle Database Sample Schemas that provides a common platform for examples in each release of the Oracle Database The sample database is also a good database for practicing with SQL especially SQLite The detailed description of the database can be found on <http://luna.ext.oracle.com/server/112/e10831/diagrams.htm> insertedID0 The four schemas are a set of interlinked schemas This set of schemas provides a layered approach to complexity A simple schema Human Resources HR is useful for introducing basic topics An extension to this schema supports Oracle Internet Directory demos A second schema Order Entry OE is useful for dealing with matters of intermediate complexity Many data types are available in this schema including non scalar data types The Online Catalog OC subschema is a collection of object relational database objects built inside the OE schema The Product Media PM schema is dedicated to multimedia data types The Sales History SH schema is designed to

allow for demos with large amounts of data An extension to this schema provides support for advanced analytic processing The HR schema consists of seven tables regions countries locations departments employees jobs and job_histories This book only implements HR schema since the other schemas will be implemented in the next books PROJECT 4 FULL SOURCE CODE SQL SERVER FOR STUDENTS AND DATA SCIENTISTS WITH PYTHON GUI In this project we provide you with the SQL SERVER version of SQLite sample database named chinook The chinook sample database is a good database for practicing with SQL especially PostgreSQL The detailed description of the database can be found on <https://www.sqlitetutorial.net/sqlite-sample-database/> The sample database consists of 11 tables The employee table stores employees data such as employee id last name first name etc It also has a field named ReportsTo to specify who reports to whom customers table stores customers data invoices The artist table stores artists data It is a simple table that contains only the artist id and name The album table stores data about a list of tracks Each album belongs to one artist However one artist may have multiple albums The media_type table stores media types such as MPEG audio and AAC audio files genre table stores music types such as rock jazz metal etc The track table stores the data of songs Each track belongs to one album playlist the distribution of amount by year quarter month week day and hour the bottom top 10 sales by employee the bottom top 10 sales by customer the bottom top 10 sales by customer the bottom top 10 sales by artist the bottom top 10 sales by genre the bottom top 10 sales by play list the bottom top 10 sales by customer city the bottom top 10 sales by customer city the bottom top 10 sales by customer city the payment amount by month with mean and EWM the average payment amount by every month and amount payment in all years

FULL SOURCE CODE: SQL SERVER FOR STUDENTS AND DATA SCIENTISTS WITH PYTHON GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-10-13 In this project we provide you with the SQL SERVER version of SQLite sample database named chinook The chinook sample database is a good database for practicing with SQL especially PostgreSQL The detailed description of the database can be found on <https://www.sqlitetutorial.net/sqlite-sample-database/> The sample database consists of 11 tables The employee table stores employees data such as employee id last name first name etc It also has a field named ReportsTo to specify who reports to whom customers table stores customers data invoices The artist table stores artists data It is a simple table that contains only the artist id and name The album table stores data about a list of tracks Each album belongs to one artist However one artist may have multiple albums The media_type table stores media types such as MPEG audio and AAC audio files genre table stores music types such as rock jazz metal etc The track table stores the data of songs Each track belongs to one album playlist the distribution of amount by year quarter month week day and hour the bottom top 10 sales by employee the bottom top 10 sales by customer the bottom top 10 sales by customer the bottom top 10 sales by artist the bottom top 10 sales by genre the bottom top 10 sales by play list the bottom top 10 sales by customer city the bottom top 10 sales by customer city the bottom top 10 sales by customer city the payment amount by month with mean and EWM the average payment amount by every month and amount payment

in all years

DATA ANALYSIS USING JDBC AND SQLITE WITH OBJECT-ORIENTED APPROACH AND APACHE NETBEANS IDE Vivian Siahaan, Rismon Hasiholan Sianipar, 2023-04-12 In this project you will use SQLite version of Northwind database which is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting You can download the sample database from <https://viviansiahaan.blogspot.com/2023/04/data-analysis-using-jdbc-and-sqlite.html> In this project you will design the form for every table and you will plot the territory distribution by region the employee distributions based on city country title and region the employee distributions based on birth date hire date and employee name the employee distributions based on city country territory and region the three supplier distributions based on city region and country the product distributions based on city region country categorized unit price categorized units in stock and categorized units on order the customer distributions based on city region and country the order and freight distributions based on year month and week the order and freight distributions based on day quarter and ship country the order and freight distributions based on ship region ship city and ship name the order and freight distributions based on shipper company customer company and customer city the order and freight distributions based on customer country employee name and employee title the sales distributions based on year month week day quarter and ship country the sales distributions based on ship region ship city ship name shipper company customer company and customer city the sales distributions based on customer region customer country employee name employee title employee city and employee country the sales distributions based on product name category name supplier company supplier city supplier region and supplier country

COVID-19: Analisis, Klasifikasi, dan Deteksi Menggunakan Scikit-Learn, Keras, dan TensorFlow dengan Python GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2021-09-02 Karena penyebaran COVID 19 pengembangan vaksin dituntut sesegera mungkin Terlepas dari pentingnya analisis data dalam pengembangan vaksin tidak banyak dataset sederhana yang dapat ditangani oleh pada analisis data menggunakan data science Kumpulan data dan kode sampel telah dikumpulkan untuk prediksi epitop Bcell salah satu topik penelitian utama dalam pengembangan vaksin tersedia secara gratis Dataset ini dikembangkan selama proses penelitian dan data yang terkandung di dalamnya diperoleh dari IEDB dan UniProt Sel B yang menginduksi respon imun spesifik antigen in vivo menghasilkan sejumlah besar antibodi spesifik antigen dengan mengenali subregion wilayah epitop protein antigen Sel B ini dapat menghambat fungsinya dengan mengikat antibodi ke protein antigen Memprediksi daerah epitop bermanfaat untuk desain dan pengembangan vaksin yang bertujuan untuk menginduksi produksi antibodi spesifik antigen Sel B inilah menjadi dataset utama yang dipakai pada proyek ini Dataset ini memuat kolom parent_protein_id protein_seq start_position end_position peptide_seq

chou_fasman emini kolaskar_tongaonkar parker hydrophobicity isoelectric_point aromaticity stability dan target Selanjutnya Anda akan belajar menggunakan Scikit Learn Keras TensorFlow NumPy Pandas Seaborn dan sejumlah Pustaka lain untuk memprediksi COVID 19 Epitope menggunakan dataset COVID 19 SARS B cell Epitope Prediction yang disediakan di Kaggle Model model machine learning yang digunakan adalah K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost Gradient Boosting XGB classifier dan MLP classifier Kemudian Anda akan mempelajari cara menerapkan model deep learning CNN sekuensial dan VGG16 untuk mendeteksi dan memprediksi Covid 19 X RAY menggunakan COVID 19 Xray Dataset Train Test Sets yang disediakan di Kaggle Folder itu sendiri terdiri dari dua subfolder test dan train Terakhir Anda akan mengembangkan GUI menggunakan PyQt5 untuk menampilkan batas batas keputusan tiap model ROC distribusi fitur keutamaan fitur skor validasi silang nilai nilai prediksi versus nilai nilai sebenarnya matriks confusion rugi pelatihan dan rugi akurasi

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