

Understanding Elliptic Curve Cryptography



Elliptic Curve Cryptography Matlab Manual

**Vivian Siahaan, Rismon Hasiholan
Sianipar**



Elliptic Curve Cryptography Matlab Manual:

The Quick Tutorial to Learn Database Programming Using Python GUI with MariaDB and PostgreSQL Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-15 In this book you will create two MariaDB and PostgreSQL driven projects using PyQt. The step by step guide in this book is expected to help the reader's confidence to become a programmer who can solve database programming problems. A progressive project is provided to demonstrate how to apply the concepts of MariaDB and PostgreSQL using Python. In second chapter you will learn PyQt that consists of a number of Python bindings for cross platform applications that combine all the strengths of Qt and Python. By using PyQt you can include all Qt libraries in Python code so you can write GUI applications in Python. In other words you can use PyQt to access all the features provided by Qt through Python code. Because PyQt depends on the Qt libraries at run time you need to install PyQt. In third chapter you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In fourth chapter you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In this chapter you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter five you will create dan configure PostgreSQL database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter six you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter seven you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In chapter eight you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well

The Fast Tutorial to Learn Database Programming Using Python GUI with Access and SQL Server Vivian Siahaan, Rismon Hasiholan Sianipar, 2020-01-15 This book covers microsoft acces and SQL Server based GUI programming using pyqt. Intentionally designed for various levels of interest and

ability of learners this book is suitable for students engineers and even researchers in a variety of disciplines No advanced programming experience is needed and only a few school level programming skill are needed In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In third chapter you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In fourth chapter you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will create dan configure database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter seven you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have VARBINARY MAX data type You will also create GUI to display edit insert and delete for this table In chapter eight you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In the last chapter you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well

A PROGRESSIVE TUTORIAL TO DATABASE PROGRAMMING WITH PYTHON GUI AND POSTGRESQL Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-03 In this book you will create two desktop applications using Python GUI and PostgreSQL This book is a Python PostgreSQL version of the Python MySQL book which was written by the author What underlies the writing

of this book is the growing popularity of the PostgreSQL database server lately and more and more programmers migrating from MySQL to PostgreSQL In this book you will learn to build a school database project step by step A number of widgets from PyQt will be used for the user interface In the first and second chapter you will get introduction of postgresql And then you will learn querying data from the postgresql using Python including establishing a database connection creating a statement object executing the query processing the resultset object querying data using a statement that returns multiple rows querying data using a statement that has parameters inserting data into a table using Python updating data in postgresql database using Python calling postgresql stored function using Python deleting data from a postgresql table using Python and postgresql Python transaction In the fourth chapter you will study Creating the initial three table in the School database project Teacher table Class table and Subject table Creating database configuration files Creating a Python GUI for viewing and navigating the contents of each table Creating a Python GUI for inserting and editing tables and Creating a Python GUI to merge and query the three tables In chapter five you will learn Creating the main form to connect all forms Creating a project that will add three more tables to the school database the Student table the Parent table and the Tuition table Creating a Python GUI to view and navigate the contents of each table Creating a Python GUI for editing inserting and deleting records in each table Create a Python GUI to merge and query the three tables and all six tables In chapter six you will create dan configure PostgreSQL database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter seven you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have a VARCHAR data type 200 You will also create GUI to display edit insert and delete for this table In chapter eight you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In chapter nine you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will create GUI to display edit insert and delete for both tables as well

PART 1 - 3: STEP BY STEP TUTORIAL: JAVA/MYSQL With Object-Oriented Programming Using Apache NetBeans IDE Vivian Siahaan, Rismon Hasiholan Sianipar, 2023-02-11

PART 1 This book uses six tables in the Sakila sample database which is a fictitious database designed to represent a DVD rental store The database consists of 15 tables including 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 In this book as part 1 you will develop step by step tutorial object oriented programming and Java GUI using NetBeans to implement the first six tables in sakila database actor language film category film_category and film_actor tables PART 2 The sakila database consists of 15 tables including film film_category actor customer rental payment and inventory among others The sakila sample database which is a fictitious database designed to represent a DVD rental store is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Our previous book part 1 implements the first six tables in sakila database actor language film category film_category and film_actor tables This book as second part uses five tables in the sakila sample database country city address store and staff tables PART 3 Our books part 1 and part 2 had been published implementing the first eleven tables in sakila database actor language film category film_category film_actor country city address store and staff tables This book as part 3 develops step by step object oriented programming and Java GUI tutorial using NetBeans to implement the remaining four tables customer inventory rental and payment in the Sakila sample database which is a fictitious database designed to represent a DVD rental store

STEP BY STEP TUTORIAL: JAVA/MYSQL With Object-Oriented Programming Using Apache NetBeans IDE PART 3 Vivian Siahaan,Rismon Hasiholan Sianipar,2023-02-08 The sakila database consists of 15 tables including film film_category actor customer rental payment and inventory among others The sakila sample database which is a fictitious database designed to represent a DVD rental store is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Our books part 1 and part 2 had been published implementing the first eleven tables in sakila database actor language film category film_category film_actor country city address store and staff tables This book as part 3 develops step by step object oriented programming and Java GUI tutorial using NetBeans to implement the remaining four tables customer inventory rental and payment in the Sakila sample database which is a fictitious database designed to represent a DVD rental store

The Best Tutorial to Learn Database Programming with Java GUI, MariaDB, and SQL Server Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-08 This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MariaDB and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to MariaDB and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren't getting the most from MariaDB and SQL Server As you would expect this book shows how to build from scratch two different databases MariaDB and SQL Server using Java In designing a GUI and as an IDE you will make use of the NetBeans tool In chapter one you will learn the basics of cryptography using Java Here you will learn how to write a Java program to count Hash MAC Message Authentication Code

store keys in a KeyStore generate PrivateKey and PublicKey encrypt decrypt data and generate and verify digital prints You will also learn how to create and store salt passwords and verify them In chapter two you will create a PostgreSQL database named Bank and its tables In chapter three you will create a Login table In this case you will see how to create a Java GUI using NetBeans to implement it In addition to the Login table in this chapter you will also create a Client table In the case of the Client table you will learn how to generate and save public and private keys into a database You will also learn how to encrypt decrypt data and save the results into a database In chapter four you will create an Account table This account table has the following ten fields account_id primary key client_id primarykey account_number account_date account_type plain_balance cipher_balance decipher_balance digital_signature and signature_verification In this case you will learn how to implement generating and verifying digital prints and storing the results into a database In chapter five you create a table named Client_Data which has seven columns client_data_id primary key account_id primary_key birth_date address mother_name telephone and photo_path In chapter six you will be taught how to create a SQL Server database named Crime and its tables In chapter seven you will be taught how to extract image features utilizing BufferedImage class in Java GUI In chapter eight you will be taught to create Java GUI to view edit insert and delete Suspect table data This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo In chapter nine you will be taught to create Java GUI to view edit insert and delete Feature_Extraction table data This table has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 In chapter ten you will add two tables Police_Station and Investigator These two tables will later be joined to Suspect table through another table File_Case which will be built in the seventh chapter The Police_Station has six columns police_station_id primary key location city province telephone and photo The Investigator has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo Here you will design a Java GUI to display edit fill and delete data in both tables In chapter eleven you will add two tables Victim and File_Case The File_Case table will connect four other tables Suspect Police_Station Investigator and Victim The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The File_Case has seven columns file_case_id primary key suspect_id foreign key police_station_id foreign key investigator_id foreign key victim_id foreign key status and description Here you will also design a Java GUI to display edit fill and delete data in both tables Finally this book is hopefully useful and can improve database programming skills for every Java MariaDB SQL Server programmer

STEP BY STEP TUTORIAL: Java/MySQL with Object-Oriented Programming Using Apache NetBeans IDE PART 1 Vivian Siahaan,Rismon Hasiholan Sianipar,2023-01-22 This book uses six tables in the Sakila sample database which is a fictitious database designed to represent a DVD rental store The database consists of 15 tables including 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 In this book as part 1 you will develop step by step tutorial object oriented programming and Java GUI using NetBeans to implement the first six tables in sakila database actor language film category film_category and film_actor tables 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-dataset> 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/abtabm/multiclassimage-dataset-airplane-car>). 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

STEP BY STEP TUTORIAL: JAVA/MYSQL With Object-Oriented Programming Using Apache NetBeans IDE PART 2 Vivian Siahaan,Rismon Hasiholan Sianipar,2023-01-30 The sakila database consists of 15 tables including film film_category actor customer rental payment and inventory among others The sakila sample database which is a fictitious database designed to represent a DVD rental store is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Our previous book part 1 implements the first six tables in sakila database actor language film category film_category and film_actor tables This book as second part uses five tables in the sakila sample database country city address store and staff tables

STEP BY STEP TUTORIAL: SQL SERVER FOR DATA SCIENCE WITH PYTHON GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-11-13 This book uses the SQL SERVER 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 SQL SERVER 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

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Elliptic Curve Cryptography Matlab Manual Introduction

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