**Running the Application**

1. **Dependencies**: Ensure you have the following dependencies installed:
   * Python (version 3.x)
   * Flask
   * pandas
   * scikit-learn
   * matplotlib
   * seaborn
2. **Setup**:
   * Place the provided **model.py**, **api.py**, and **API Usage.ipynb** files in the same directory.
   * Ensure you have the **train\_maids.xlsx** file containing training data.
3. **Running the Flask API**:
   * Open a terminal or command prompt.
   * Navigate to the directory containing the files.
   * Run the command: **python api.py**.
   * The Flask application will start running locally.
   * The database is an excel file called devices.xlsx and it will be created in the same repository if it didn’t already exist.

**Interacting with API Endpoints**

1. **Retrieve All Devices**:
   * **URL**: **http://127.0.0.1:5000/api/devices**
   * **Method**: GET
   * **Description**: Retrieves details of all devices stored in the database.
2. **Retrieve Device by ID**:
   * **URL**: **http://127.0.0.1:5000/api/devices/<device\_id>**
   * **Method**: GET
   * **Description**: Retrieves details of a specific device by its ID.
3. **Add a New Device**:
   * **URL**: **http://127.0.0.1:5000/api/devices**
   * **Method**: POST
   * **Request Body**: JSON object containing details of the new device.
   * **Description**: Adds a new device to the database.
4. **Predict Price for a Device**:
   * **URL**: **http://127.0.0.1:5000/api/predict/<device\_id>**
   * **Method**: POST
   * **Description**: Predicts the price range for a specific device based on its features.