

Running the Devices Price Classification System API

Introduction

This guide provides instructions on how to run and interact with the Devices Price Classification System API. The API is built using Flask and is designed to predict the price range of mobile devices based on their specifications.

Prerequisites

Before running the application, ensure that you have the following installed:

Python (version 3.x)

Flask

pickle

NumPy

pandas

Postman (optional, for API testing)

Steps to Run the Application

1. Clone the Repository
2. Run main.py
- 3.

Testing with Postman (Optional)

- Open Postman and create a new request.
- Set the request type to POST and enter the URL `http://localhost:5000/predict`.
- Set the request headers if required (e.g., `Content-Type: application/json`).
- Input the device specifications in JSON format in the request body.
- Click on Send to receive the predicted price response.

Example Request Body (JSON format)

```
{ "battery_power": 2000, "blue": 1, "clock_speed": 2.5, "dual_sim": 1, "fc": 8, "four_g": 1,
  "int_memory": 16, "m_dep": 0.5, "mobile_wt": 150, "n_cores": 4, "pc": 12, "px_height": 1280,
  "px_width": 720, "ram": 4096, "sc_h": 15, "sc_w": 10, "talk_time": 12, "three_g": 1,
  "touch_screen": 1, "wifi": 1 }
```

Example Response

```
{ "predicted_price_static": "medium cost" }
```