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Report Note: Model Deployment and API Testing Summary

Objective: The goal was to deploy a machine learning model using Flask and test the API to ensure it correctly handles input data and returns predictions.

Model Deployment:

- The model was successfully deployed using a Flask application.
- The Flask server is currently running in development mode, which is appropriate for testing but should be switched to a production-ready server, such as Gunicorn or uWSGI, before moving to a live environment.

API Testing:

- A test script (run.py) was created to send a POST request to the /predict endpoint of the Flask application. The script included sample input data to simulate a real-world prediction request.
- The API responded successfully, returning the expected prediction ({'prediction': 0}), which demonstrates that the model is functioning correctly when integrated into the Flask app.
- It was tested with multiple inputs also with in-datasets value, it performed well in all tests..!



