Binayee Dizayee

Matin Ali

Final Report

Goal:
To build a machine learning application that predicts students' academic performance using a simple user interface.

Steps Taken:

- We used the "Students Performance in Exams" dataset from Kaggle.
- We cleaned and preprocessed the data using pandas and scikit-learn.
- A Random Forest Regressor model was trained to predict the average score.
- The trained model was saved as model.pkl.
- A GUI was created using Streamlit for users to enter data and get predictions.
- Screenshots of the working app are included below.

Technologies Used:
Python, pandas, scikit-learn, Streamlit, pickle

Files in Our Project:

- preprocess.py
- train_model.py
- gui_app.py
- eda_notebook.ipynb
- requirements.txt
- README.md
- screenshots/ folder

What We Learned:
We learned how to apply machine learning end-to-end — from raw data to deployment. We also practiced teamwork, clean coding, and GitHub collaboration.