**Day 25 – Wednesday, 23 July 2025**

**Topic:** Web Interface Development  
**Objective:** Design a user-friendly interface using Streamlit.

**Summary:**  
Today’s task focused on creating a simple yet interactive **web interface** for my *Student Performance Prediction* project using **Streamlit**. The goal was to allow users to easily input student data (such as study hours, attendance, parental education, and past grades) and instantly receive a predicted performance category.

I developed the base structure of the app, which includes input fields for numerical and categorical data, a “Predict” button, and an output section that displays the model’s prediction result. The backend was connected to the trained **Random Forest model (.pkl file)** so that predictions could be generated dynamically.

I tested the functionality by entering sample values and verified that the predictions were accurate and consistent with offline testing. The interface is designed to be lightweight and responsive, making it easy for users — such as teachers or administrators — to evaluate students’ potential performance in real time.

**Additional Notes:**

* Streamlit functions like st.text\_input(), st.number\_input(), and st.button() were used.
* Added a short project title and header for better presentation.
* Successfully completed the first working version of the web app for future refinement.