Part 4 - Feature Engineering

Examples:

- Create a new feature: Programming Average = (Python + DB) /2.
- Create a binary feature: isAdult = 1 if Age >= 25, else 0.
- Transform studyH0URS into categories (Low / Medium / High).

Question: Which engineered feature do you think would add the most predictive power to the model?

Part 5 – Feature Scaling

- Detect Numeric Columns
- Apply Scaling
 - Option 1: StandardScaler (mean=0, std=1) → good for SVM, Logistic Regression.
 - Option 2: MinMaxScaler (range 0–1) → good for Neural Networks, KNN.

Part 6 - Encoding Categorical Data

- Detect Categorical Columns
- Handle Encoding