Methods we are going to apply

1.Data Loading

2.Data preprocessing

Data splitting

**Handling missing values** (imputation)

**Outlier treatment**

**Encoding categorical variables** (one-hot, target encoding, etc.)

**Feature engineering**

**Final dataset shaping** (consistent numeric/categorical dtypes, no leakage columns).

3.

RFE

train\_test\_split method

Data visualization

Base model-regression

CV

Multi output regressor

Training model

Model classifier

Predicting values

SHAP/LIME

Evaluating model-MAE