

Decision tree classifier

Data Loading:

- The notebook begins by loading a dataset. Ensure you provide the appropriate file path to the dataset or use the example data included.

Exploratory Data Analysis (EDA):

- Initial data analysis steps, such as checking for missing values, data distribution, and correlations.

Data Preprocessing:

- Steps to handle missing values, encode categorical data, and scale numerical features.

Model Building:

- Construction of a decision tree model using `scikit-learn`.
- Hyperparameter tuning (if applicable).

Model Evaluation:

- Performance metrics like accuracy, precision, recall, F1-score, or regression metrics (e.g., RMSE).

Visualization:

- Visualization of the decision tree structure or feature importances.