

## House Price Range Classification - One Page Summary

Problem Statement: Classify houses into price ranges (low, medium, high) using basic features like number of bedrooms, bathrooms, and square footage.

Approach:

- Preprocess dataset and select key features (bedrooms, bathrooms, sqft)
- Create price\_range target using tertiles (33% / 66%)
- Train Decision Tree and Random Forest classifiers and compare performance
- Save visual outputs (tree plot, confusion matrices, feature importance)

Files: Notebook (notebooks/), outputs/ (plots), README.md, one\_page\_writeup.pdf, requirements.txt, metadata.json