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Project Proposal

[House Prices Prediction]

- **Project Description:**
  - Predicting house prices helps people to know selling prices for houses in a particular region , so it can help them to understand the right time to buy a house.
  - In this project , our task is to use data from the California census to create a machine learning model to predict house prices in the State.

- **Question/need:**
  - Analysis and Visualization:
  - Doing some EDA to explore the dataset.
  - Modeling
  - Building a machine learning model by using linear regression algorithm.

- The purpose of the model is to predict houses prices.

- Data Description:
  - The data pertains to the houses found in a given California district and some summary stats about them based on the 1990 census data.
  - The data includes the following features: (Longitude , latitude , housing median age , total rooms , total bedrooms , population , households , median income , median house value , ocean proximity).
  - The data contains 20640 instances (datapoints).

- Tools:
  - Anaconda , Jupyter, python, pandas, numpy, matplotlib, seaborn, scikit-learn train_test_split, LinearRegression, accuracy_score.

- MVP Goal :
  - Creating a machine learning model to predict house prices in California State districts.