**California Housing Price Prediction:**

This California Census Data is taken from the US Census Bureau, which has 20,640 records and 10 different variables:

* Longitude
* Latitude
* Housing median age
* Total rooms
* Total bedrooms
* Population
* Households
* Median income
* Ocean proximity
* Median house value

This project has been completed in three different parts as given below:

1. **Data Wrangling:**

* Checking missing values
* Filling missing values
* Creating new features
* Converting categorical variables into numerical
* Standardizing data
* Checking **multicollenearity**

1. **EDA (Extrapolatory Data Analysis):**

* Distribution of households with different visualizations
* Heat Map and other visualizations to see the correlations between variables.
* Checking Outliers with boxplots and scatter plots
* Detecting and Removing Outliers
* Checking Skewness of features

1. **Machine Learning Algorithms to train data:**

* Linear Regression
* Ridge Regression
* Support Vector Machine Regression
* Decision Tree Regression
* Random Forest Regression
* Gradient Boosting Regression
* XGBoost Regression