Estimate House Prices in California

Use statistical methods and machine learning algorithms to build a model that learns to estimate house prices in California given the provided dataset. The accuracy of the model is not of great importance, more important is that you are able to motivate and explain the decisions you have made in your solution.

Use your favorite language and libraries. (A tip however is to use Python or R)

Dataset description

The dataset consists of the following 10 columns

Attribute	Description
longitude	Longitude of the region
latitude	Latitude of the region
housing_median_age	The median house age
total_rooms	Total rooms of all houses in the region
total_bedrooms	Total number of bedrooms of all houses in the region
population	Population
households	Number of households
median_income	Median income
median_house_value	Median house value. **(The attribute to be learned)**
ocean_proximity	Categorical attribute that indicates how near the ocean the region is.