

Project 1

Housing Data

CALIFORNIA HOUSING MARKET

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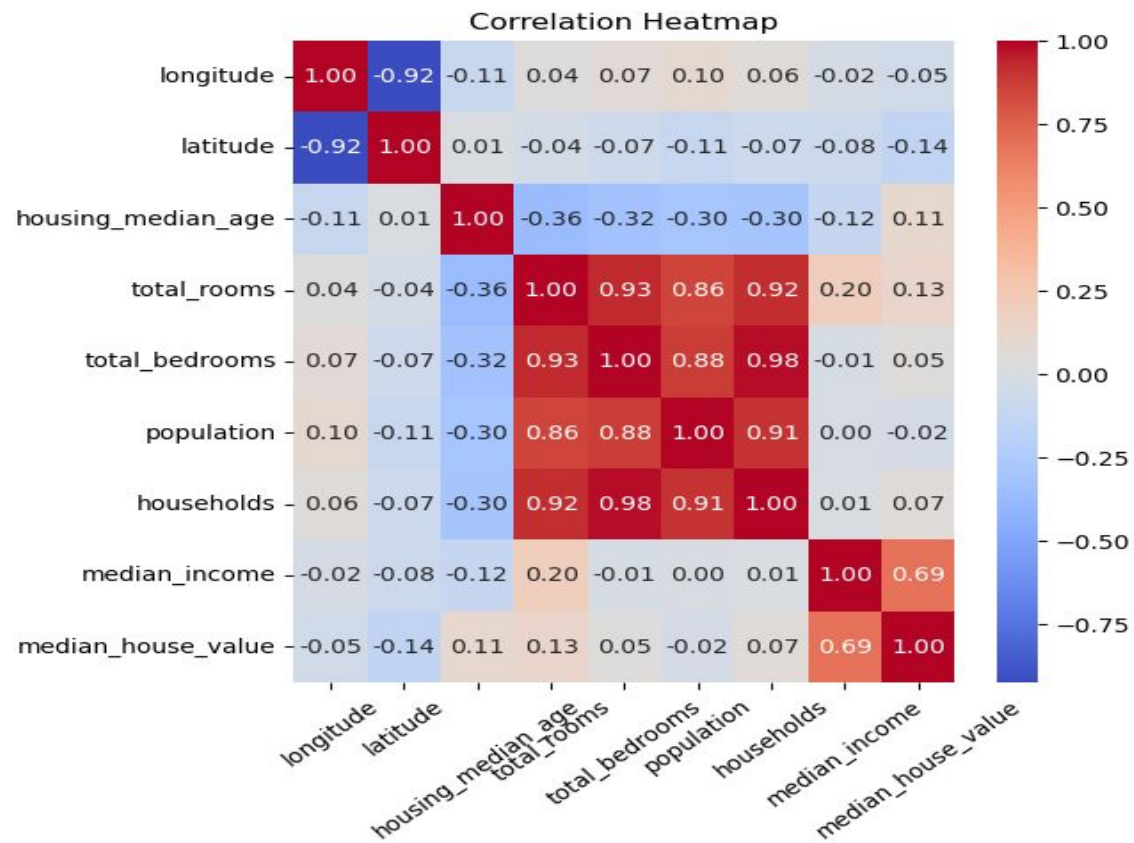
FACTORS THAT AFFECT THE HOUSING MARKET IN CALIFORNIA

- Market Insights
- Demographics and Households
- Geographical
- Economic and Income
- Predictive

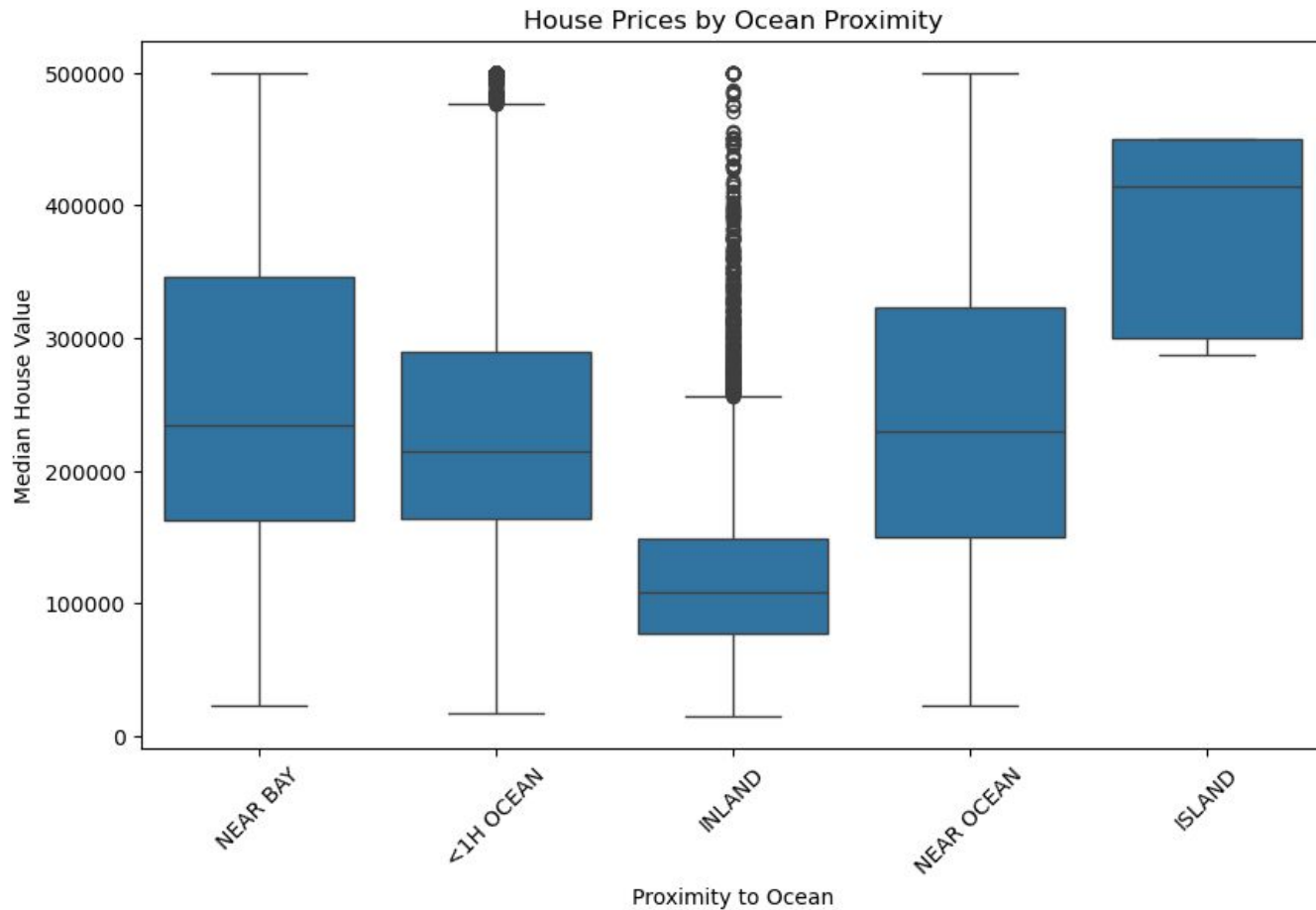
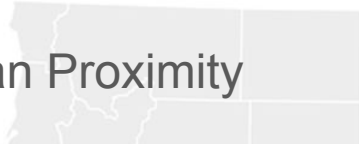
HOUSINGS DATA

longitude	latitude	housing_ median_ age	total_rooms	total_bedrooms	population	households	median_ income	ocean_proximity	median_ house_value
-122.23	37.88	41	880	129	322	126	8.3252	NEAR BAY	452600
-122.22	37.86	21	7099	1106	2401	1138	8.3014	NEAR BAY	358500
-122.24	37.85	52	1467	190	496	177	7.2574	NEAR BAY	352100
-122.25	37.85	52	1274	235	558	219	5.6431	NEAR BAY	341300
-122.25	37.85	52	1627	280	565	259	3.8462	NEAR BAY	342200
-122.25	37.85	52	919	213	413	193	4.0368	NEAR BAY	269700
-122.25	37.84	52	2535	489	1094	514	3.6591	NEAR BAY	299200
-122.25	37.84	52	3104	687	1157	647	3.12	NEAR BAY	241400
-122.26	37.84	42	2555	665	1206	595	2.0804	NEAR BAY	226700
-122.25	37.84	52	3549	707	1551	714	3.6912	NEAR BAY	261100

Correlation Heatmap

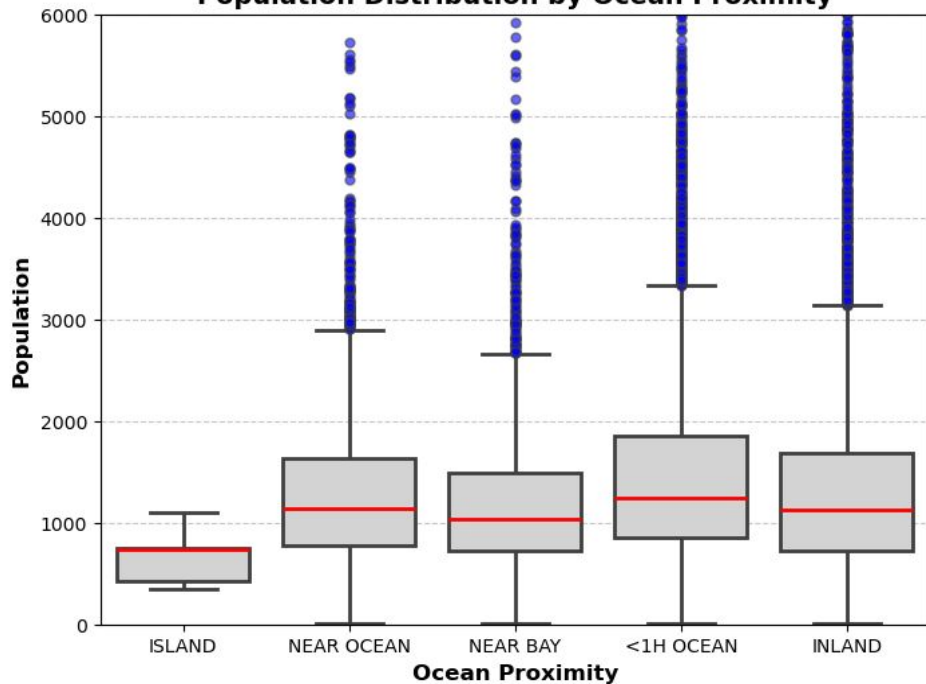


House Prices by Ocean Proximity

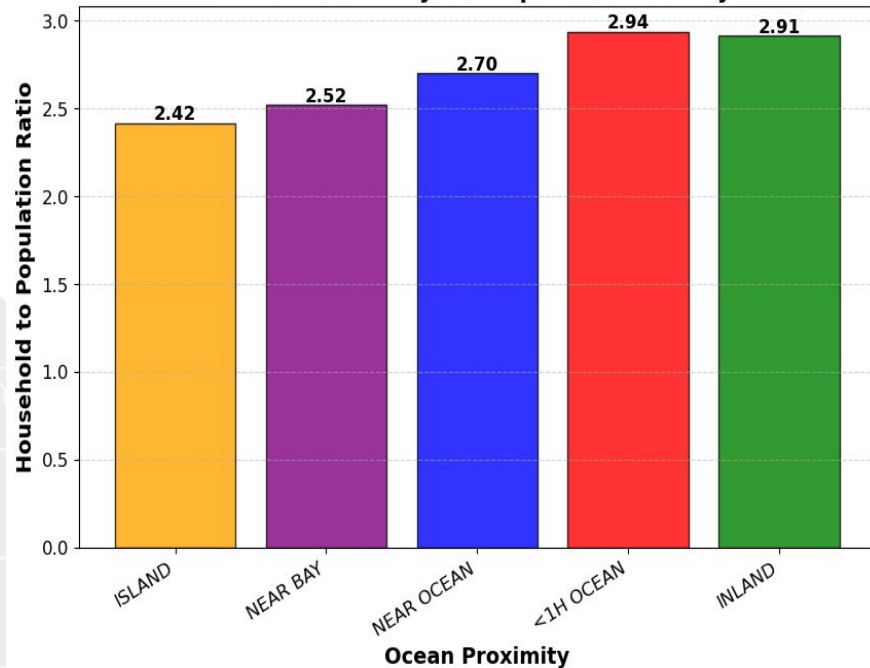


Population Density by Ocean Proximity

Population Distribution by Ocean Proximity



Ocean Proximity vs. Population Density



Demographics and Households

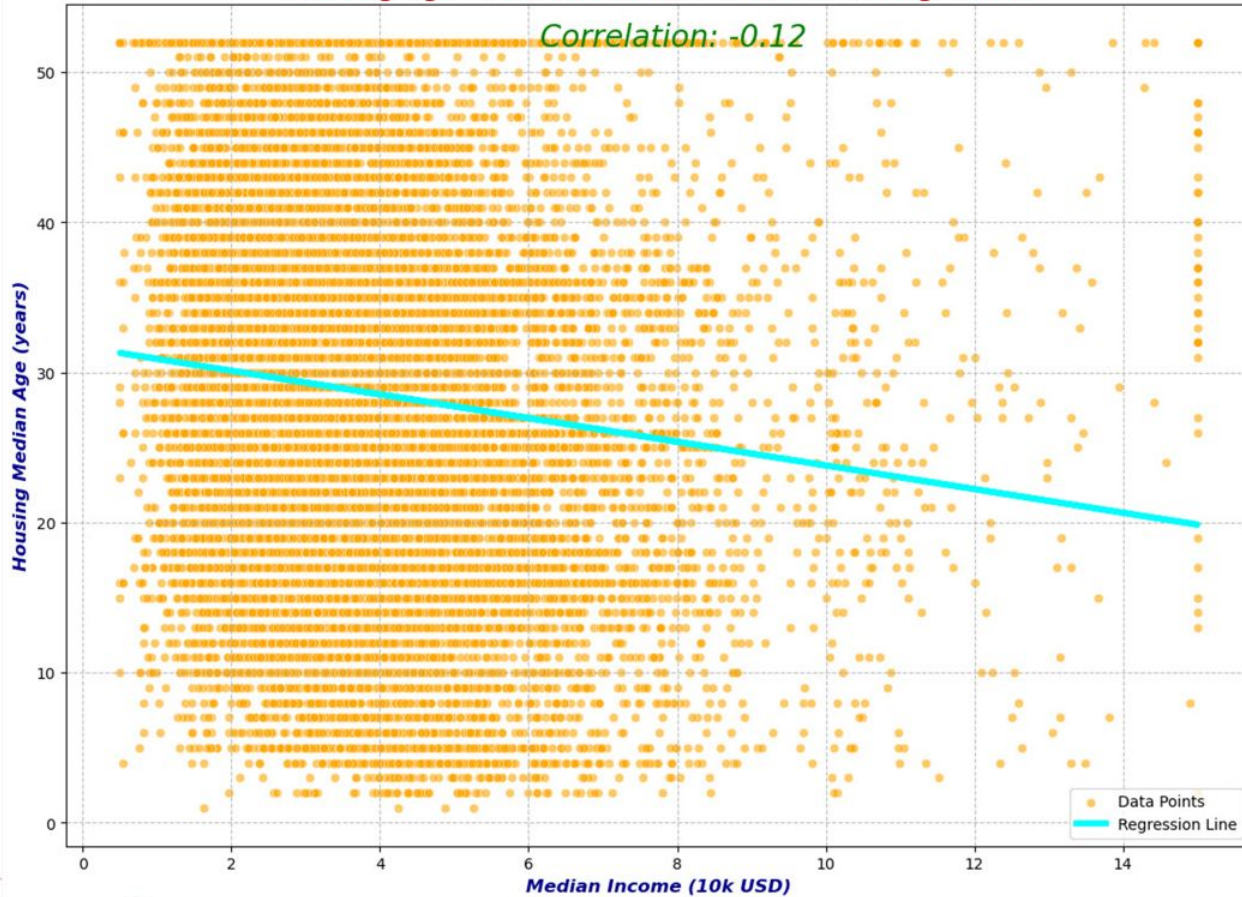


Population Density and Housing

Desirable areas like San Francisco, San Diego and Los Angeles

- In the areas with positive density high housing cost and amenities
- Negative dense area houses cost less and overcrowded

Housing Age vs Median Income with Linear Regression



Comparison of housing median age with median income

- There is no correlation between housing age and income levels.
- Based on the data, higher-income areas don't always have newer homes, showing that housing age isn't strongly linked to income levels.



Housing Prices by Proximity

Housing Market

Visualization: A scatter plot overlaid on a California map highlights costlier areas in red, showcasing key pricing patterns across regions.

Impact of Ocean

Proximity: Homes closer to the coast tend to have higher prices, but inland areas show varying trends, revealing diverse housing dynamics.

