

DATA SCIENCE CAPSTONE PROJECT

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PROBLEM STATEMENT AND OBJECTIVE

- Various kind of people move from different parts of the world to London, UK with the thought of building a home or buying a home in this place. There are various factors that are needed to be considered in order to make a firm decision regarding the same. These problems are an ever-increasing list.
- Every person may not be aware of all the factors and may not have the proper information to refer while buying a house. Many customers may also have a personalized list of factors.
- This system investigates the market prices and helps the client shortlist the number of locations where a property can be bought.

RESOLUTION

- With the help of data available on government website of London, and many data science tools we can derive information about the different pricing ranges in various localities of London.
- First the data is downloaded and cleansed in order to perform various machine learning algorithm on it. An average price is then determined in order to help with the calculations.
- Coordinates of various streets are taken from Google Maps data base by making API calls.
- A location is suggested based on the client's budget.
- Other amenities near the house are also shown in tabular format.

AUTOMATION AND DATA

Language used	Python (3.x)
IDE	Jupyter Notebook
Input	Price Paid Data by HM Land Registry (Govt. of UK) Google Maps Geocoding API Foursquare location data
Output	1. List of recommended locations 2. Recommendations plotted on map 3. Amenities closer to the property.

BENEFITS

- Dynamic Recommendations
- Customer can choose any City/Town
- Budget friendly recommendations
- Better Visualization

FUTURE SCOPE

- Database containing larger amount of data can be used for better recommendations
- Interactive UI can be developed.



THANK YOU