PROJECT PROPOSAL

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Course	Data Science with Python
Supervisor Name	Pasindu Marasinghe
Title of Project	California Housing Price Prediction
	Problem Definition The objective of this project is to develop a churn model for predicting housing price movements in California. The model will utilize various factors and characteristics related to properties and their surrounding areas to forecast whether the prices of houses are likely to increase or decrease. This prediction will assist potential buyers, sellers, and real estate investors in making informed decisions and understanding the market trends.
	# Column Non-Null Count Dtype
Abstract of the project	O longitude 20640 non-null float64 1 latitude 20640 non-null int64 2 housing_median_age 20640 non-null int64 3 total_rooms 20640 non-null int64 4 total_bedrooms 20433 non-null float64 5 population 20640 non-null int64 6 households 20640 non-null int64 7 median_income 20640 non-null float64 8 ocean_proximity 20640 non-null object 9 median_house_value 20640 non-null int64 dtypes: float64(4), int64(5), object(1) (Rows-20640, coloumns-10)
	Proposed Solution The proposed solution for California Housing Price Prediction involves developing a machine learning model that utilizes data analytics and predictive modeling techniques to accurately predict housing prices. Collect comprehensive data on housing attributes and relevant features such as longitude, latitude, housing median age, total rooms, total bedrooms, population, households, median income, median house value, and ocean proximity. Cleanse and preprocess the data, handling missing values, outliers, and inconsistencies to ensure data quality. Develop a user-friendly interface that allows users (potential buyers, sellers, or real estate investors) to input relevant attributes and obtain predicted housing prices. Deploy the trained model into the system, making it accessible and interactive for users.