PROJECT SYNOPSIS

Airbnb NYC Price Prediction

Submitted towards the partial fulfillment of the criteria for award of Post Graduate In Data Analytics by Imarticus

Submitted By:

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Course and Batch: PGA 25

Scope & Objective

The objective of the Airbnb NYC price prediction project is to analyze the factors that impact rental prices and to identify areas where Airbnb rental prices are higher, as well as to provide insights into the supply and demand for Airbnb rentals in NYC and inform business decisions. Additionally, the dataset can inform pricing strategies for both Airbnb hosts and guests and predict future rental prices.

Business Problem Statement

The main goal of this project is to understand the factors that impact rental prices and to identify areas in NYC where Airbnb rental prices are higher.

Data Sources

Inside Airbnb

Analytics Tools

Jupyter Notebook - VSCode

Analytics Approach

Logistic Regression, KNN, SVM, Decision Tree, Random Forest, Ada Boost, Gradient Boosting, XG Boost

KPIs, Timelines, Milestones

KPIs include accuracy score, confusion matrix, classification report and learning curve.

Timelines:
i.)14.01.2023 - Find the Project
ii.)21.01.2023 - Finalize the project
iii.)28.01.2023 - Complete the project
iv.)04.02.2023 - Evaluate the project