**Final Project-Part 3**

Arya Sachar

Jacob Shaw

Komal Khawaja

**Purpose/audience:**

The goal of our app is to help buyers find the estimated house price based on the desired features i.e area, no. of bathrooms, no.of bedrooms, no.of parking space, stories, furnishing status, near to the main road, guest room, basement, hot water heating, air-conditioning and preference of area.

Users will be able to see graphs showing a comparison of how estimated price changes with changes in features.

Our app will help buyers find estimated prices of homes based on the features they like. It will help buyers avoid homes that are out of their budget range. This will reduce the time buyers spend searching for a home in their range.

**App architecture:**

Our app was created using the python streamlit application. We have a three page app.   
1. Home Page: Introduction page

2. EDA Page: This page displays Exploratory Data Analysis for the project conducted during Part 2

3. Interactive: This allows a user to give inputs about their preferred features and get a predicted price using our Linear Regression Model (Best Model.It is 68% accurate in predicting changes in price based on changes in features)

**Tools Used:**

**Front End:**Streamlit

**Back End:**Python

**Tools:**Visual Studio Code

**Functionalities :**

**App and link to GitHub (if the app only working locally - state in the issues section)**

Our app only works locally due to the unavailability of free hosts.

We have uploaded the application source code with GitHub at the following URL

**URL:**

**Issues**:

We faced issues in running visualizations directly with Streamlit. Some visualization didn’t work as expected, causing errors when trying to display in the app.

**Contributions:**

Arya Sachar:

Jacob Shaw:

Komal Khawaja: I worked on visualization and making input fields on interactive page.

**Reference**:Note- cite resources that were used to build the app (including using copilot/chatgpt/gemini or other tools to help debug and optimize).

**Yantra, K.** (n.d.). *Streamlit widgets: Revolutionize your data science and machine learning interfaces* [Video]. YouTube. <https://www.youtube.com/watch?v=WyqnyCqU01A>