Real Estate Prediction Model

Submitted in partial fulfillment of the requirements for the award of degree of

BACHELOR OF ENGINEERING
IN

COMPUTER SCIENCE & ENGINEERING

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Introduction:

The project is a ML model which will help the user to find the price range of Real estate projects in a particular city. The ML model will be embedded into an android app for easy access to the user. The project will be built using two technology: python and android studio. The model will be built on python and will be embedded into an android application using Android Studio.

Feasibility Study:

Everyone likes to have some investments whether it be Plot, house, apartment/studios etc as they are a good source of investment. Many brokers offer plots to buyers but the price they state is not the rightful price, and in such case it will be helpful to the buyer if they know the price beforehand. So in order to help the user the project is being made which will help in predicting pice for a city and state based on the data available.

Methodology/ Planning of work:

In order to accomplish our task of making a predictive model, we have divided our project into different tasks as follows:

PHASE-1 (Data Gathering/ Model building):

- In this phase dataset will be selected for building the model and model building will be done.

PHASE-2(Model Test/Embed):

- In this phase the model will be tested if it is give the result needed. Further the model will be programmed to make it possible to embed it into an android application.

PHASE-3(App Building):

- In the third and final phase the app will be built on Android Studio using Kotlin. The proper working of the app will also be tested in the final stage.

Module & Team Member wise Distribution of work:

The two of us aim at working at this model with complete dedication and commitment, we have decided to work in all the different phases of the project to understand the complete functioning of the model.

The distribution of the work is divided equally between both of us as given

PHASE-1:

Dataset gathering and model building task will be done by Atul

PHASE-2:

Model embedding will be done by both of us since it requires knowledge about both the domains i.e. python and Android studio.

PHASE-3

The android application will be built by Manjeet and it will be tested on various devices.

Innovations in Project:

Through this project we are trying to link knowledge of two different domains together which are python and android. Python is not known for making android apps but with the help of this project we will be able to run python programs on android devices as well. There are many learning opportunities from this project and it shall be innovated as well.

Software and Hardware Requirements:

Software Requirements:

1) Python
2) Anaconda Powershell Prompt
3) Pycharm IDE
4) Android Studio
5) Kotlin

Hardware Requirements:

The project is implemented on the given PC specifications:

1) Processor: Intel® Core™ i5-2450M CPU- 2.0Ghz 2.50GHz

2)System type: 64-bit OS,x64-based processor

3)Installed Memory(RAM) – 8.00 GB