

House Price Predictor

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TEACHING AND
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OUTLINE

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Project Description

- In this project we will create a machine learning model with the decision tree algorithm on train.csv dataset.
- This model will aid us in making better real estate decisions by making house price predictions in that area.
- For this we will carryout data exploration for better understanding of data and will require preprocessing to improve the model accuracy.



Current System vs Proposed System



Current System

Prices of real estate properties are sophisticatedly linked with our economy. Despite this, we do not have accurate measures of housing prices based on the vast amount of data available. Hence real estate agents are trusted with the communication between buyers and sellers.



Limitations of Current System

High Commissions When sellers sell their homes, margins are imposed, and customers are charged to engage a broker. This adds a layer of complexity to the process and raises the expense of housing.



Proposed System

By predicting property prices in that location, this model will help us make better real estate selections. This will reduce commissions and save time because it can estimate pricing in a matter of seconds!



GOALS



Our First Goal

Identify the important house price attributes which feed the model's predictive power.



Our Second Goal

Create an effective price prediction model.



Our Third Goal

Validate the model's prediction accuracy.

TECHNOLOGIES USED



Hardware and Software Requirements

- HDD : 512GB
- Processor : i3
- RAM : 4GB or more
- Device: Mobile , Laptop, Tablet
- Visual Studio Code
- Anaconda
- Sublime Text



Gantt Chart

DEC - JAN

FEBRUARY

MARCH

APRIL

MIRAL

Creating Model



MAHARSHI

UI/UX Design



ANISH

Connecting UI
with Model



MAHARSHI
ANISH

Documentation





Prediction Model

- # Flask Implementation

- # Final Project

Input fields : 11



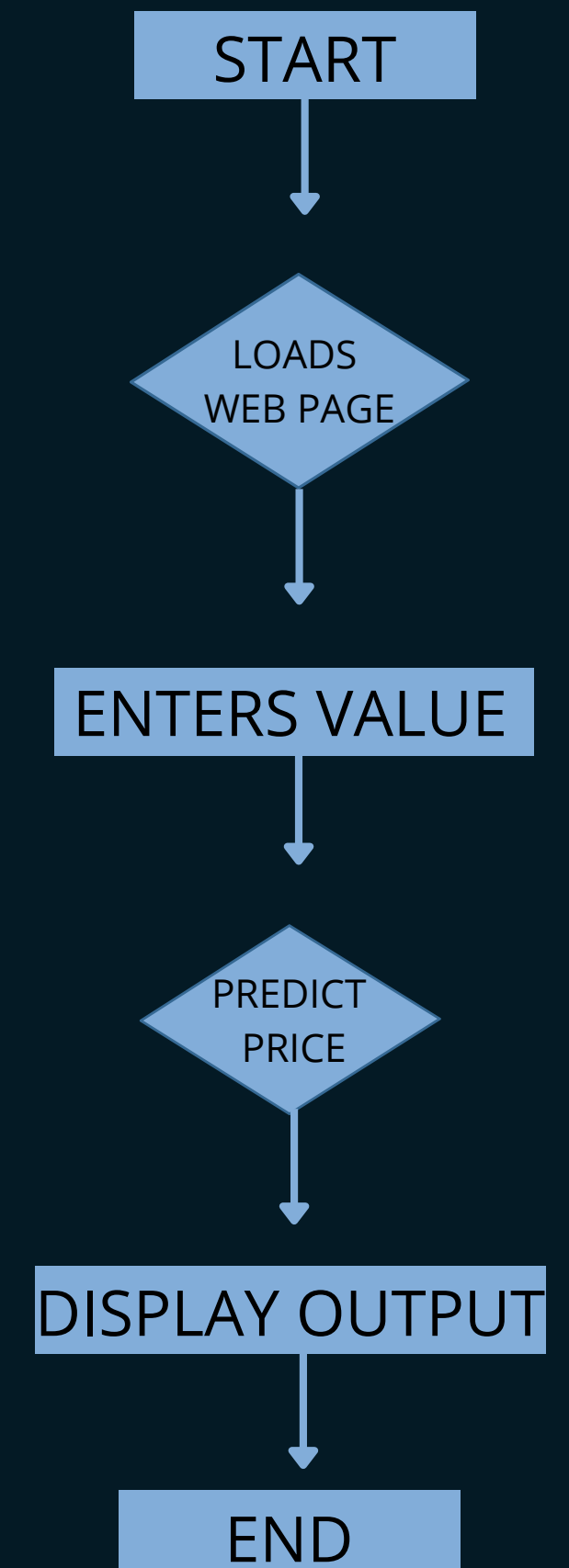
System Flowchart

On user end

1. User loads the webpage by clicking on the url.
2. Enters values for the pre defined features.
3. Click on predict button.
4. The webpage displays output for the same.

On our end

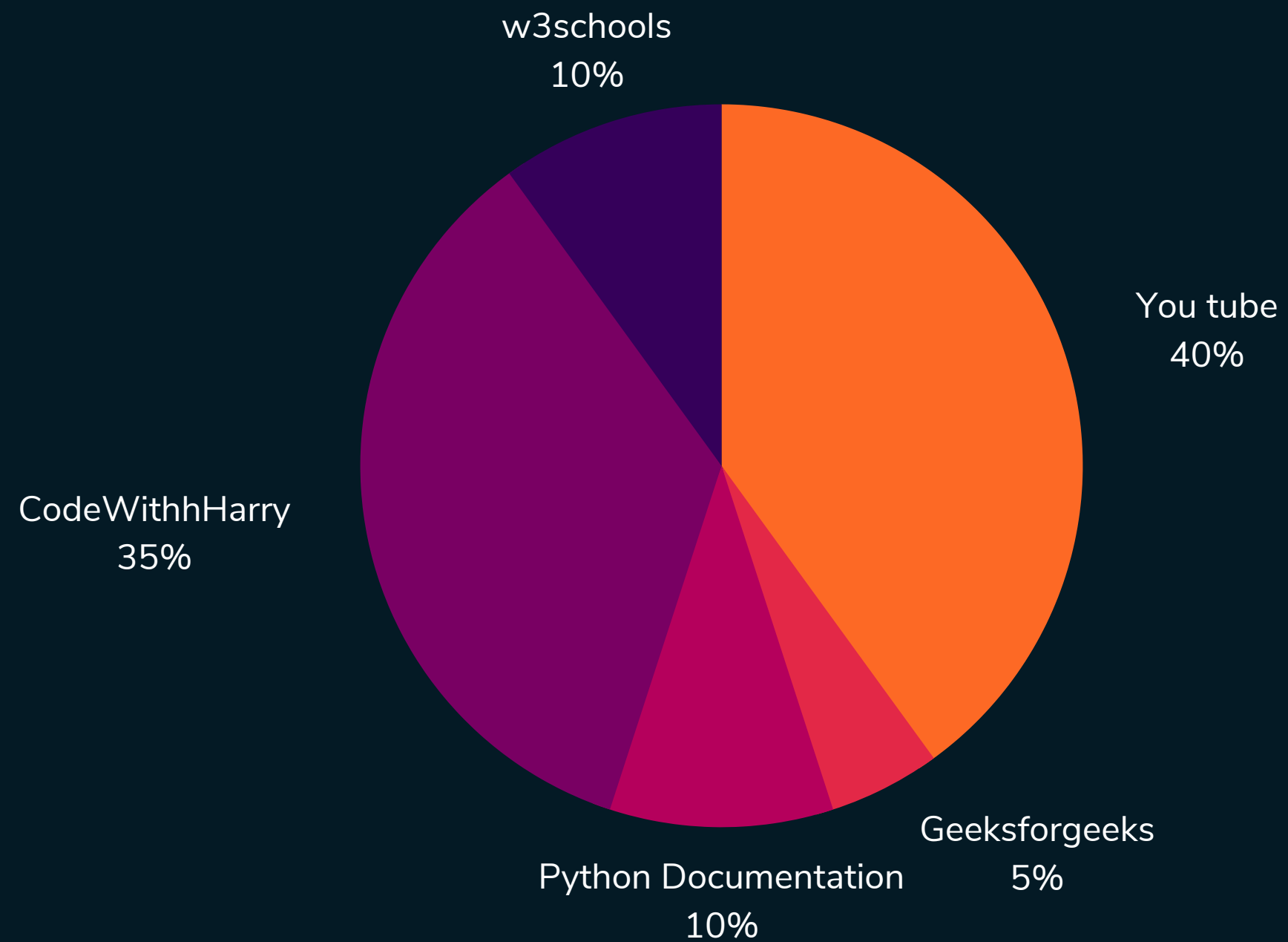
1. User entered values are fetched to app.py and processed according to the logic.
2. Values are send to predict() function that goes through the model and predicts price.
3. The output is fetched by the app.py and get displayed on webpage.





LIMITATIONS **and** **FUTURE SCOPE**

- This system cannot be used all over India because we did not use a data set that contains data from all cities.
- Based on the results, it can be concluded that such ML-driven predictions are easily comprehensible and significant from a data-analytics point of view.



References

- <https://www.youtube.com/>
- <https://www.geeksforgeeks.org/>
- <https://www.w3schools.com/>
- <https://codewithharry.com/>
- <https://docs.python.org/3/>

THANK
YOU!