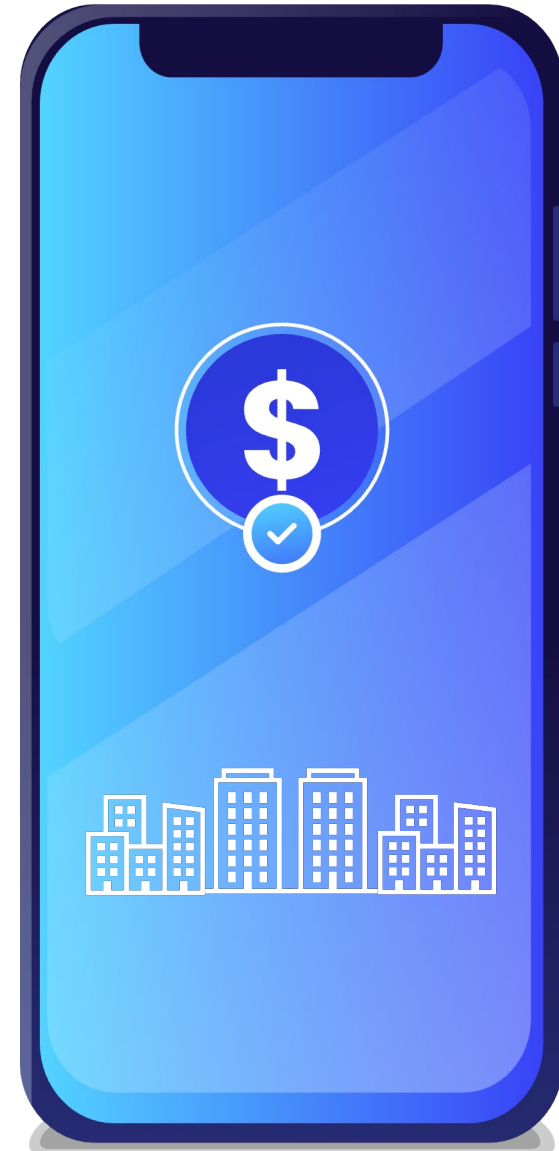
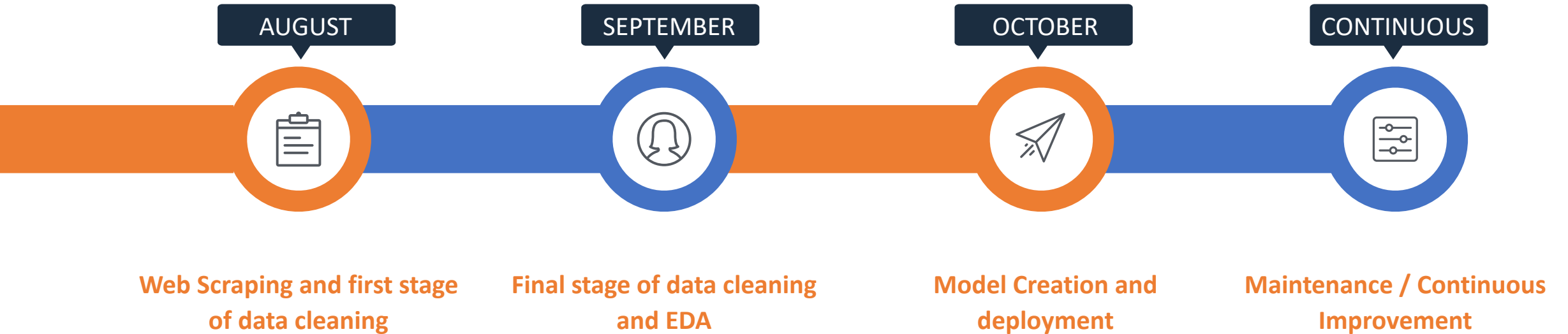


# LAGOS HOUSING PREDICTIONS

OLALEKAN KEHINDE  
BABAJIDE ALAO  
INNOCENT ALINTA  
MICHEAL ONABANJO  
PAUL ADEGBITE



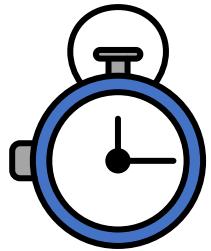
# PROJECT TIMELINE



# PROJECT OVERVIEW

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The aim of this project is to develop an intuitive, machine learning model that can predict the cost of renting houses in the Lagos State area. This project will achieve the following for the end user:



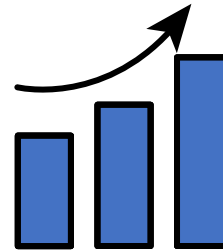
## Convenience

Access to a large data base of housing properties



## Relevance

Awareness of rent prices across several locations in Lagos



## Empowerment

Ability to filter search to fit needs or preferences for decision making



## Agility

Platform is automatically updated to provided the most accurate data

# PROJECT OBJECTIVES



1

## **END TO END MACHINE LEARNING MODEL**

Machine learning algorithm that will be able to predict price

2

## **FEATURES & FUNCTIONALITY**

XG Boost model perform well with a degree correlation of 0.7

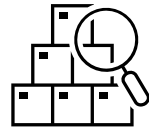
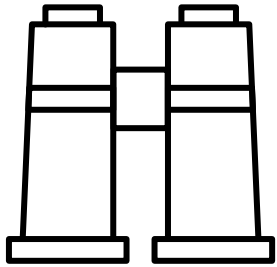
3

## **END USER EXPERIENCE**

User friendly interface

# MODEL AND DEPLOYMENT

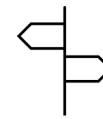
## STRATEGY



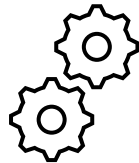
INVENTORY



DATA SCRAP



CLEAN & WRANGLE



TECHNOLOGY



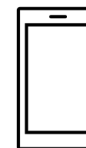
**END USER**



EDUCATE



TEST



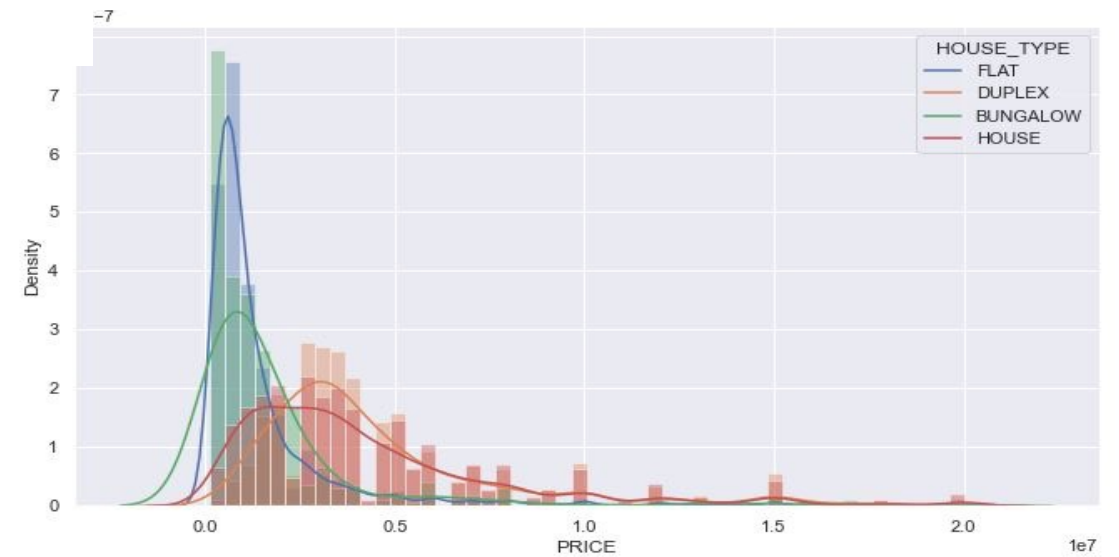
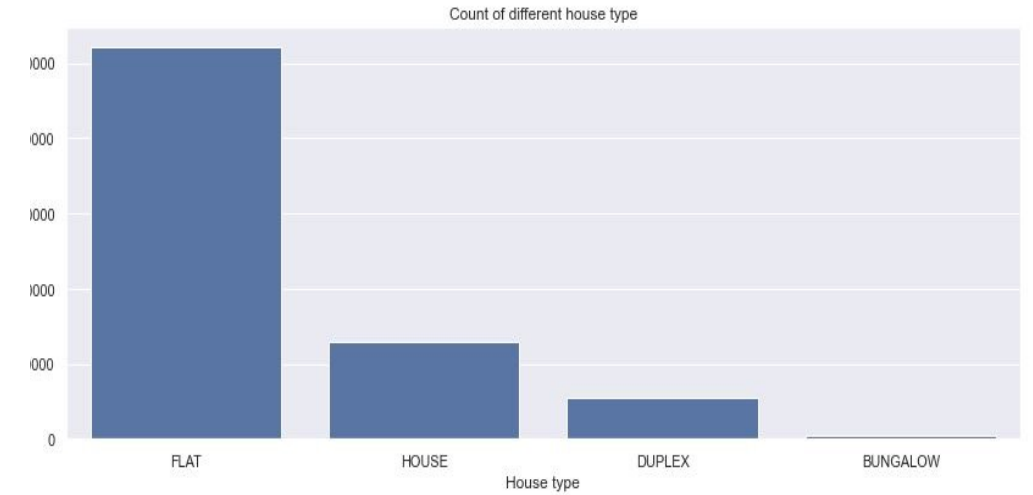
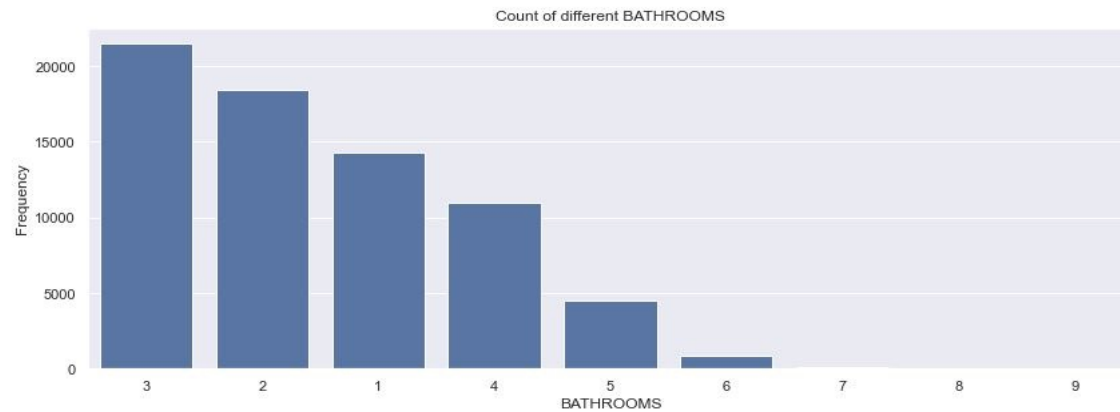
DEPLOY



MAINTAIN

# PROJECT EDA

<AxesSubplot:>



# PROJECT CHALLENGES

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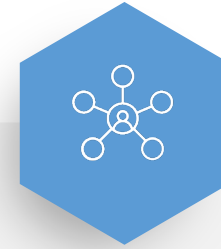
## Data Quality Issues

Information on platform were either incorrect or duplicative



## Feature Imbalance

Tried several models to fit within selected algorithm



## Price Inconsistencies

Prices across different locations were inconsistent and inaccurate

# ALGORITHM DEMO

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The aim of this project is to develop an intuitive, machine learning model that can predict the cost of renting houses in the Lagos State area. This project will achieve the following for the end user:

[Lagos House Pricing](#)



# FUTURE PROJECTIONS FOR MODEL

