Phone Price Prediction

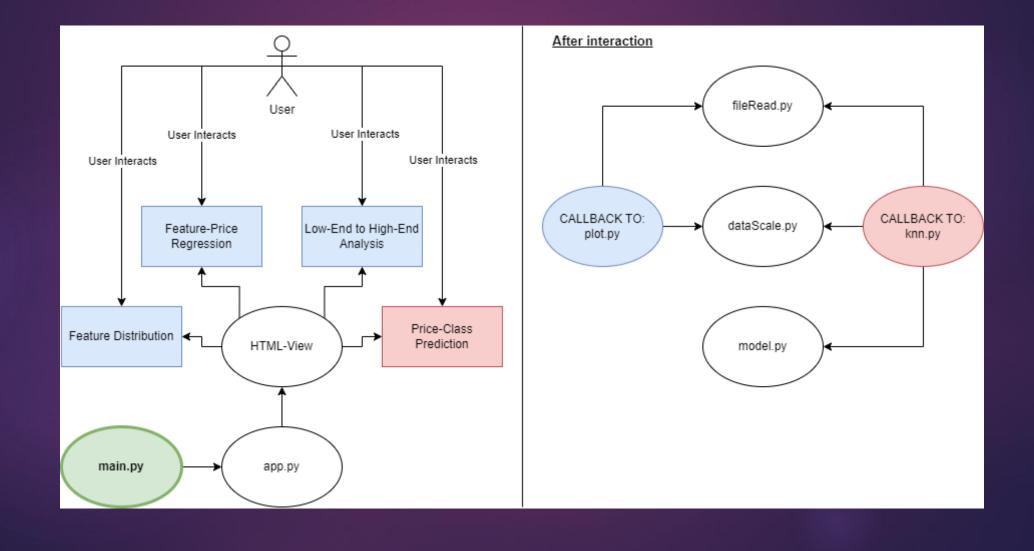
PLACHETZKY NICOLAI, KIRI NERTIL, PUKA BENJAMIN, VURAL ZELIHA, ILIAGOUEV ALON



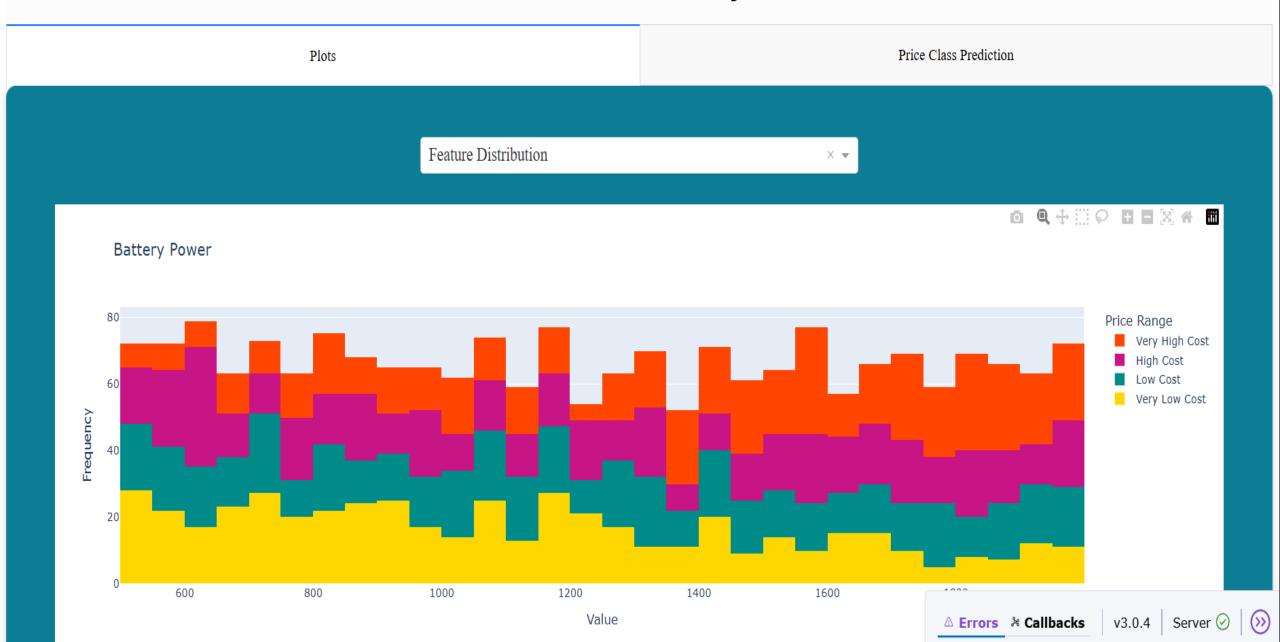
Goal

AUTOMATED WAY TO DECIDE ON PRICE RANGES FOR NEW PHONES

Program Architecture



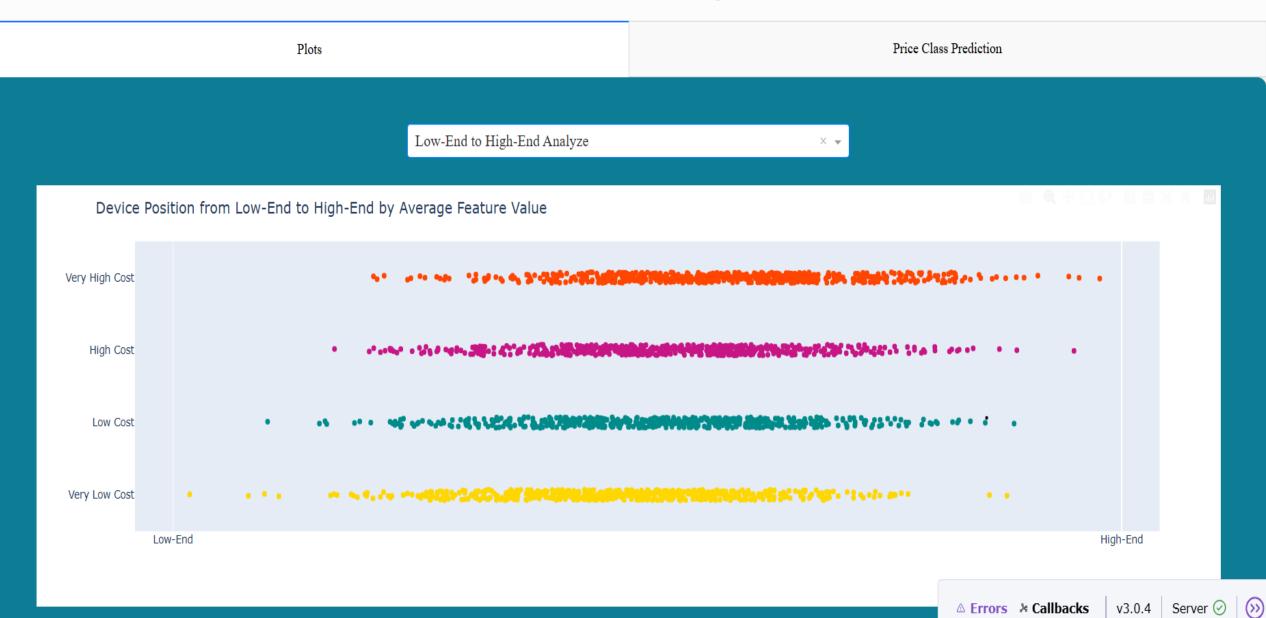
Mobile Price Prediction - Analysis Dashboard

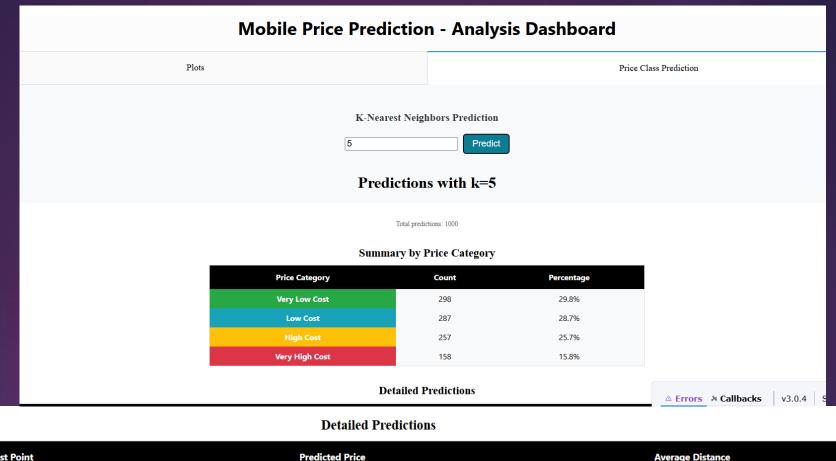


Mobile Price Prediction - Analysis Dashboard



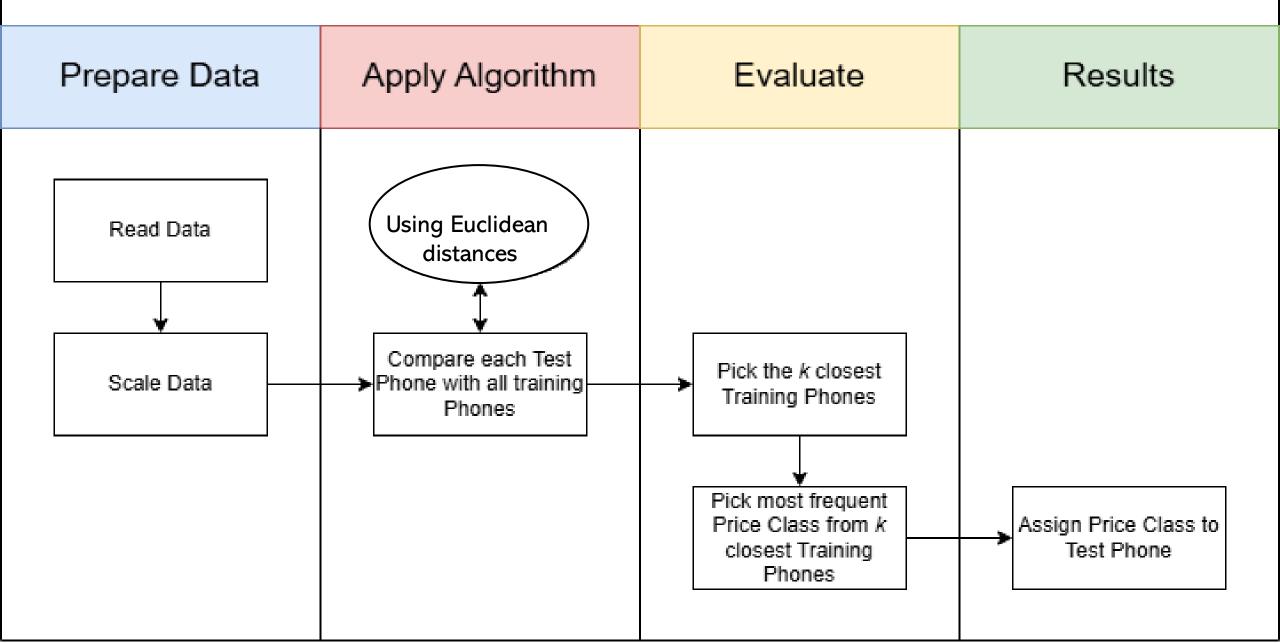
Mobile Price Prediction - Analysis Dashboard





Test Point Average Distance Predicted Price Test Point 1 1.20 Test Point 2 0.98 **Low Cost Very Low Cost** 1.13 Test Point 3 Test Point 4 **Very High Cost** 1.29 Test Point 5 1.00 Test Point 6 **Very High Cost** 1.07 Test Point 7 **Very High Cost** 1.13 Low Cost Test Point 8 1.20 Test Point 9 **Low Cost** 1 04 △ Errors ¾ Callbacks v3.0.4 Server ⊘ Test Point 10 Low Cost

Model



Technical Perspective

- Challenges
 - Slow on large datasets
 - No learning phase
- Why it does not matter
 - Datasets are always small
 - Can not learn on fluctuating market data



Domain Expert Perspective



Mistakes & Risks

Misclassification

Constant monitoring of trends



Solutions

Double checking
Simulate Predictions early

Societal Perspective



Dangers

Biases in data

Over-reliance

Consumer trust



Positive

Help smaller companies

Fast classification