Mobile Price Range Prediction

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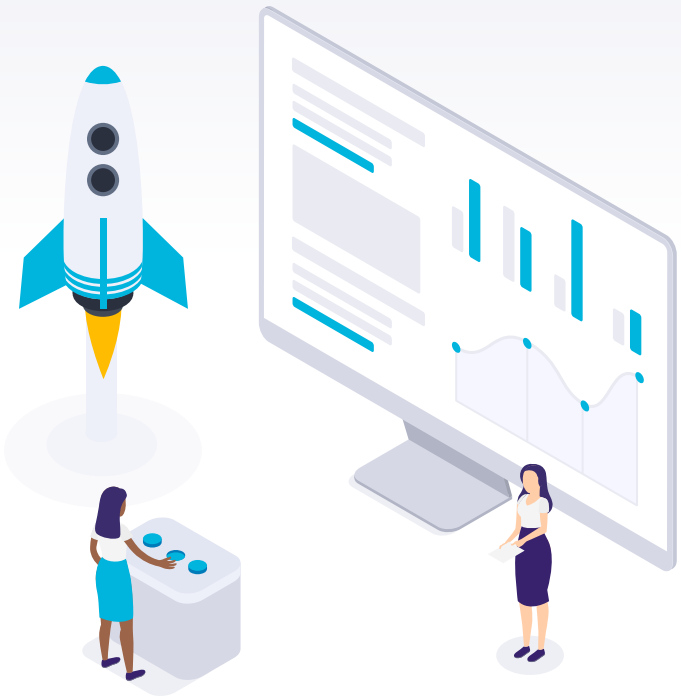
Mobile Price Range Prediction

Main Goal

- Predict the price range indicating how high the price is of mobile phones based on battery power, 4G, wifi, Bluetooth, Ram, Internal Memory and other mobile specifications

Use

- Mobile phone manufacturers predict the reasonable market price of new phones
- Strengthening market competitiveness
- Consumers can verify if they paid the best price for their phone.



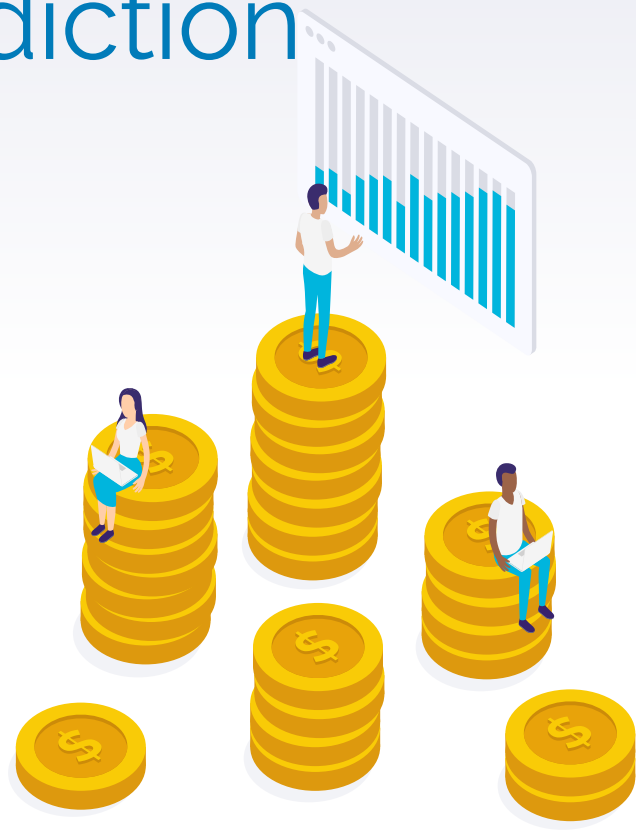
Mobile Price Range Prediction

Python

- Training data
- Visualize the data
- Build the models

Applied Models

- Decision tree
- Neural network
- Random forest



Why?

- Vertu Signature Touch starts at $10,300

Dataset

Mobile Price Classification

- Open resources in Kaggle (https://www.kaggle.com/iabhishekofficial/mobile-price-classification#train.csv)
- This dataset contain information about many mobile Specifications
- Columns: 21
- Entries: 2000
- The columns include ID，Total energy a battery can store in one time measured in mAh，Has bluetooth or not，Speed at which microprocessor executes instructions，Has dual sim support or not，Front Camera mega pixels，Has 4G or not，Internal Memory in Gigabytes，Mobile Depth in cm，Weight of mobile phone，Number of cores of processor，Primary Camera mega pixels，Pixel Resolution Height，Pixel Resolution Width，Random Access Memory in Megabytes，Screen Height of mobile in cm，Screen Width of mobile in cm，longest time that a single battery charge will last when you are，Has 3G or not，Has touch screen or not，Has wifi or not.

THANKS!

Any questions?

You can find me at:

- siyuw1@umbc.edu
- https://github.com/ciciwang1/DATA606

Credits

- Presentation template by Slide Carnival
- Dataset by Abhishek Sharma