RightPrice

Al-Based Priced Estimation System

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Contributors: Sidarth

Expo Topics

- Problem and Solution: Explain the problem we are trying to solve
- Approach and Implementation:
 - Data collection
 - Machine learning
 - Back-end and front-end applications
- **Demo:** An interactive demo at our table
- Conclusion: What we learned

Contributors: Sidarth

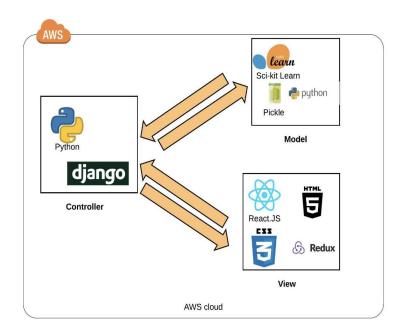


- Problem: No analytics available for second hand sales on online marketplaces
 - Consumer unfamiliarity with second hand product prices
- Solution: A user friendly tool that provides price analytics based on a machine learning model trained on web scraped ads from online marketplaces
- Goals and Deliverables:
 - Accurate data collection, cleaning and processing
 - A trained machine learning model
 - User friendly application
 - A project report detailing our efforts

Contributors: Manmeet

Approach and Implementation

- Data Collection
- Data Cleaning and Preprocessing
- Applying Machine Learning
- Making Backend API
- Front End Development

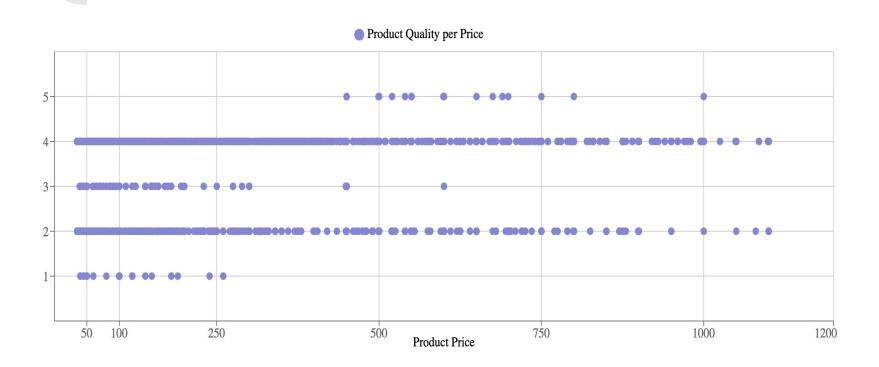


Contributors: Manmeet



BRAND	COLOUR	CONDITION	CONTRACT	MEMORY	MOBOS	MODEL	PRICE
Samsung	gray	like new	Sprint	256	android	S8 PLUS	\$270.00
Blu	red	like new	Unlocked	16	android	Y85	\$50.00
Samsung	Black	Good	Verizon	32	android	S10 plus	\$745.00
Apple	gray	like new	T-Mobile	64	apple iOS	iPhone 8 Plus	\$400.00
Samsung	white	excellent	Unlocked	64	android	NOTE 8	\$70.00
Apple	white	like new	Unlocked	256	apple iOS	XR	\$400.00
Apple	white	like new	Unlocked	64	apple iOS	6 PLUS	\$220.00
Apple	black	good	Unlocked	32	apple iOS	6S	\$150.00
Apple	rose	good	Unlocked	32	apple iOS	6	\$110.00
Apple	black	excellent	Unlocked	32	apple iOS	6 PLUS	\$155.00
Apple	rose	excellent	At&t	64	apple iOS	6	\$140.00
Apple	black	good	Verizon	64	apple iOS	6	\$135.00
Apple	silver	excellent	At&t	128	apple iOS	IPHONE 7	\$225.00
Apple	white	Good	Unlocked	256	apple iOS	xs	\$600.00
Apple	white	like new	Unlocked	128	apple iOS	IPHONE 7 PLUS	\$275.00
Apple	white	like new	Unlocked	64	apple iOS	iphone 8	\$365.00
Samsung	gray	excellent	T-Mobile	128	android	S10 PLUS	\$180.00
Apple	white	excellent	At&t	128	apple iOS	IPHONE 7 PLUS	\$400.00
Samsung	black	excellent	Unlocked	64	android	S10	\$199.00

Dataset visualizations



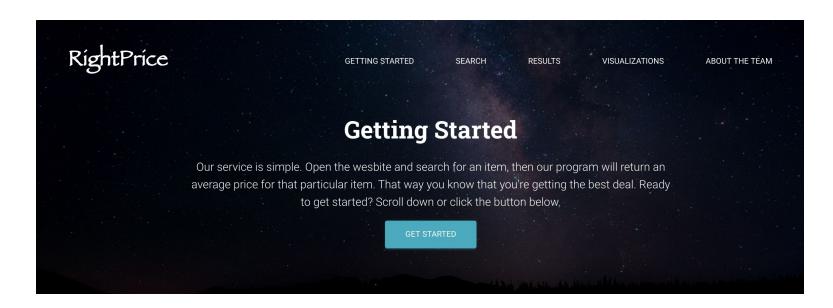
Contributors: Karthik

Data visualization



Demo

Live Link: https://master.dm8gjsj35mxwk.amplifyapp.com/



Contributors: Manpreet, Manmeet



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Contributors: Manpreet, Manmeet



Average Price of Iphone 6 plus



\$189

Contributors: Manmeet, Sidarth



- We successfully implemented our design and delivered a working project and a report
- KNN is the best approach for regression on categorical values
- Categorical data needs to be preprocessed before fitting the model

