

# Muzaffer Estelik

Prediction of Ratings
Based on Women's E-Commerce Reviews

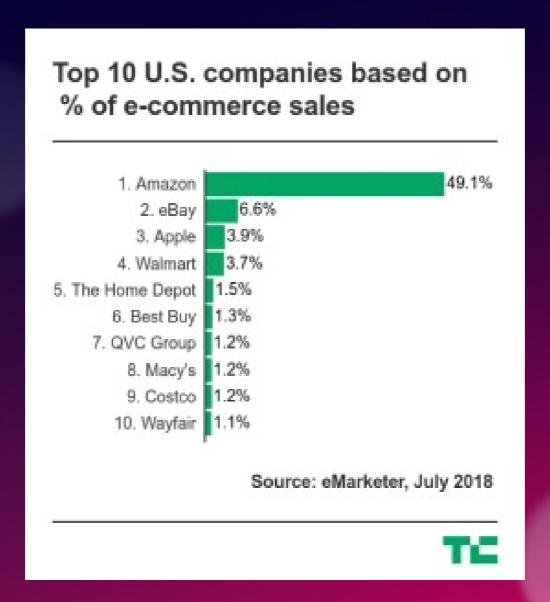
Data Science Career Track Capstone-2 Project

Oct 29<sup>th</sup>, 2018

#### **Table of Contents**

- \* Problem
- \* Data Set
- \* Exploratory Data Analysis (EDA)
- \* Machine Learning
- \* Conclusion
- \* Appendix

#### **Problem**



E-commerce is becoming more important day by day, together with all the aspects of it.

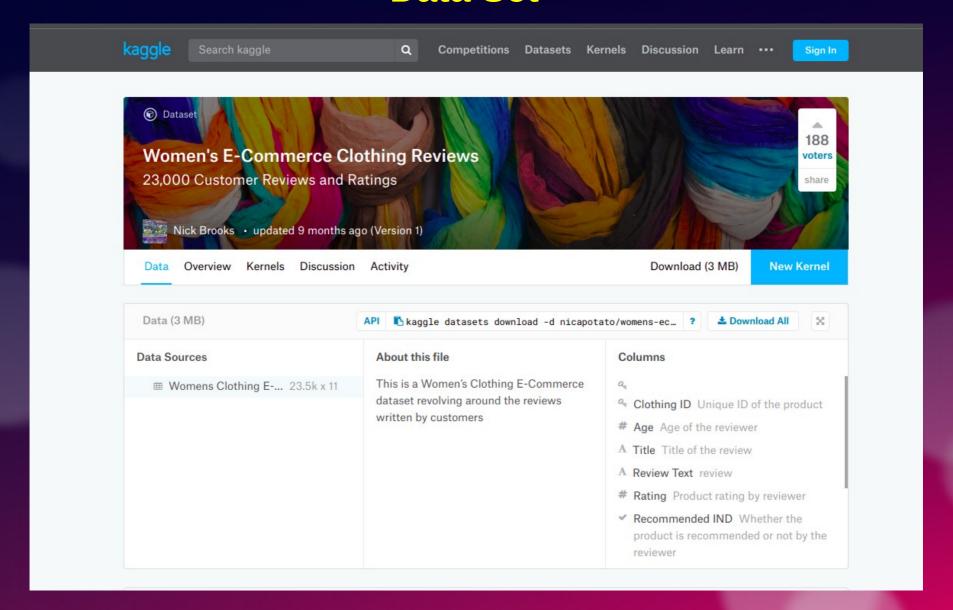
#### **Problem**



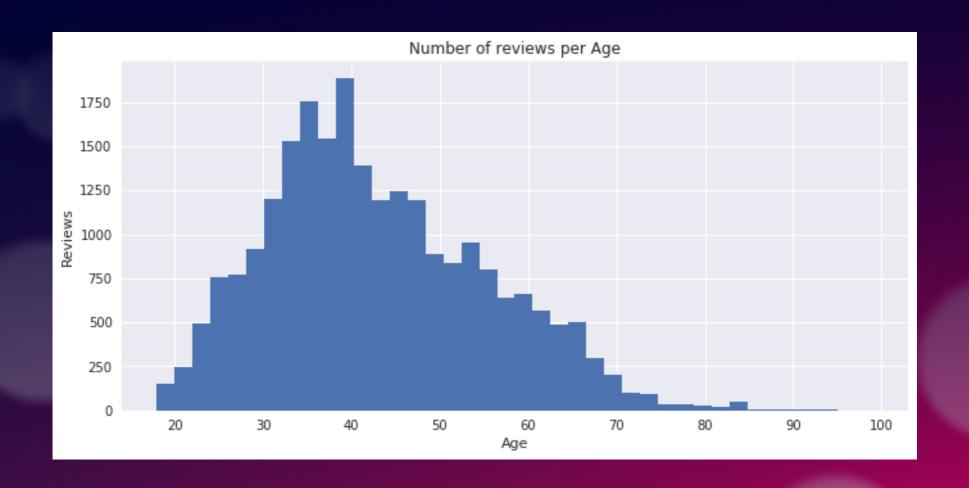
- Promotion and discounts
- Content management
- Shopping cart and checkout process

- Search engine optimized code and layout
- Reporting tools
- Email marketing

#### **Data Set**



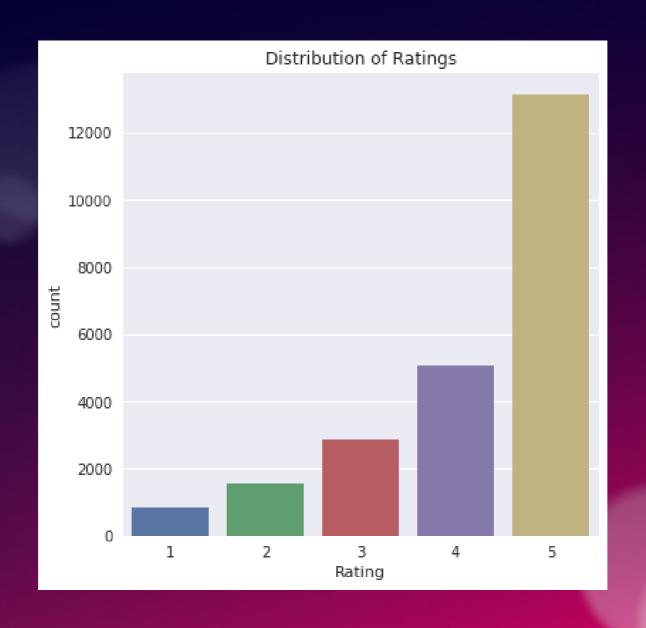
https://www.kaggle.com/nicapotato/womens-ecommerce-clothing-reviews



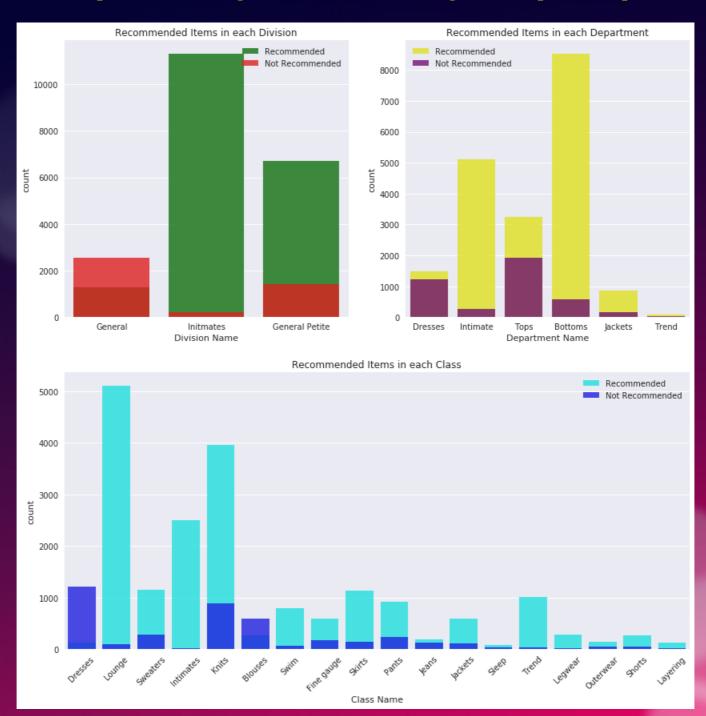
25-50 is the most reviewing age group

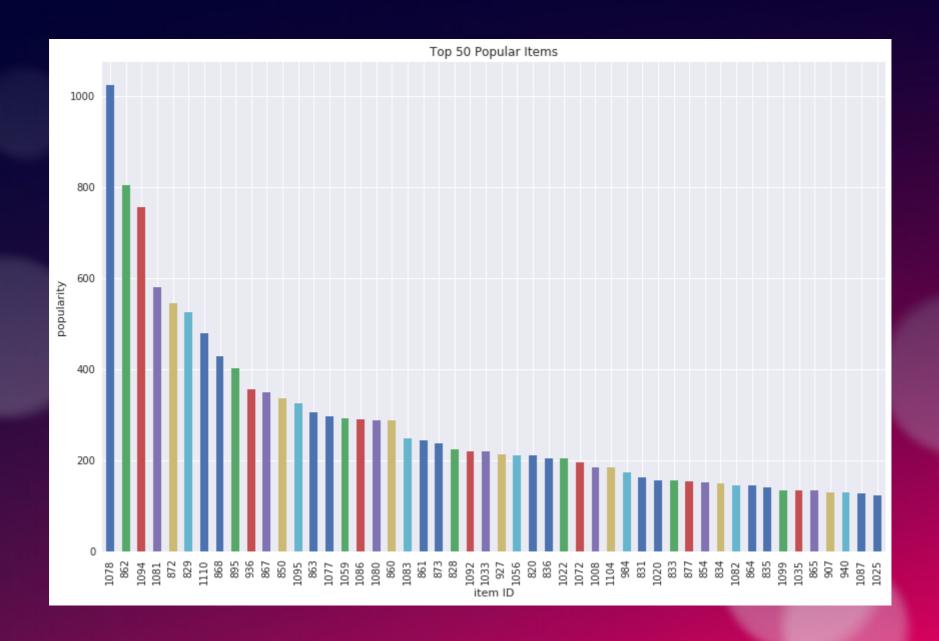


age is not a factor on the ratings of the reviews

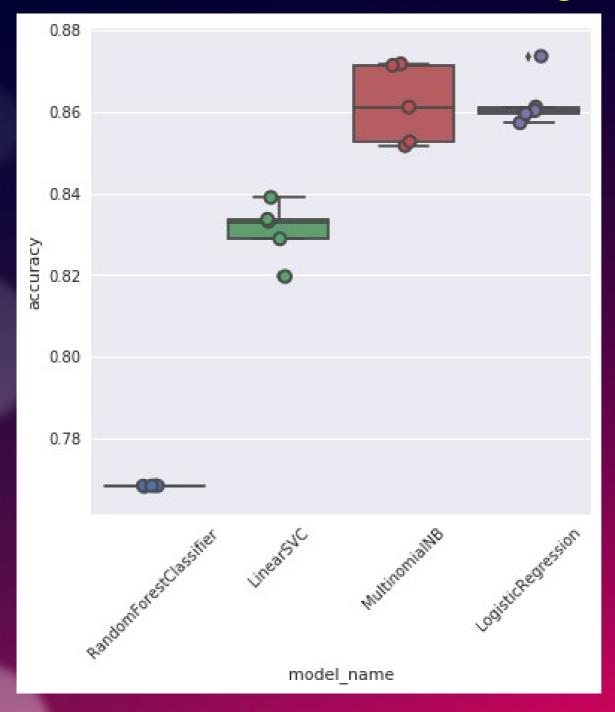








## **Machine Learning**



**TPOT** 

RNN

# Conclusion

Model Name	Train Accuracy Score	Test Accuracy Score
Linear SVC	0.830866	0.832948
Naive Bayes	0.861688	0.859608
Logistic Regression	0.862371	0.845893
Random Forest	0.768390	0.774387