Hursh Karkhanis

Machine Learning | Data Science | Data Analysis
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SUMMARY

Aspiring data scientist with project experience in exploratory data analysis, statistical testing, and machine learning skills, specifically regression, classification, and neural networks

DATA SCIENCE PROJECTS

Classification and LSTM: Classifying Tweets by Sentiment
- Used TFIDF vectorizer to vectorize tweet text for classification models
- Trained sk-learn classification models using an AWS EC2 instance, highest accuracy score was 0.8
- Built an eight layer LSTM neural network with dropout layers, accuracy score 0.84

Classification and Profit Curves: Fraud Detection Project
- Predicted fraudulent events based on 22 features
- Trained classification models with numerical and dummified categorical data
- Built profit curves estimating the dollar gain/loss of true/false predictions

Natural Language Processing: Wikipedia Articles Project
- Used natural language processing to find cosine similarities of Wiki articles
- Ran Jupyter notebooks on AWS EC2 instance
- Created word vector representations of Wiki articles

Linear Regression: Predicting IMDb Ratings
- One hot encoded categorical data with Pandas methods
- Engineered features based on domain knowledge
- Conducted GridSearch to improve Gradient Boosting model. Final RMSE was half of baseline

Statistics: "Defund the Police" statistical tests
- Split police spending data into high and low spending based on median value
- Found statistically significant relationship between police spending and crime rate
- Rejected null hypothesis based on low p-value

PROFESSIONAL EXPERIENCE

Financial Associate
Luba Designs, Inc. San Francisco, CA   2018-2020
- Analyzed bi weekly sales results of six different shoe lines to evaluate performance
- Tracked monthly profit/loss results and collaborated with manager to plan future strategies
- Built store website with Wix Web Editor to include full online store containing nearly 150 shoes

EDUCATION

University of San Francisco   2016-2020
Major: *Bachelors of Science Business Administration, Finance* with a minor in *Computer Science*

Galvanize Data Science   2020
Exploratory Data Analysis, Statistical Tests, Regression and Classification Machine Learning