

Hursh Karkhanis

Data Analyst <> Machine Learning <> Data Visualization

www.hurshkarkhanis.com

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