jesse royalty

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employment

General Assembly
Data Science Immersive

- Intense 3 month session (75 hours a week)
- Dove deeply into a broad range of skills required to be an asset in an era of exploding growth in machine learning, data collection, data management, and effective data analysis.
- Gained the skills necessary to step into the world of data science.

Technical Recruiter
Building Robotics
2016 to 2016

- Learned or used existing technical knowledge to effectively screen for front end web developers, resulting in two full-time additions to a small, tight-knit team.
- Responsible for timely scheduling of back-end screens, all technical interviews, and on site interviews.

Hospitality and Customer Service
Various companies
2007 to 2016

- Improved daily traffic and operations of a new restaurant by selecting inventory, producing a drink menu, instituting a happy hour, and training staff.
- Promoted teamwork in the workplace through conflict management, communication, respect, and cooperation.
- Developed strong organizational skills through event coordination and inventory management.
- Required competence and collectedness while working under pressure.

projects

Career Recommendation System - Client Project
Dec 2016 to Dec 2016

A local start up asked for a job and skills recommendation engine to help give users an idea of what they can do to change their career.

- Text scrubbing and cleaning was followed by TFIDF vectorization to extract relevant text features from user job descriptions and skills.
- Cluster job titles using agglomerative hierarchical clustering in order to loosely represent industries.
- Assign a cluster to a new user with multinomial logistic regression and then recommend job titles from each of the clusters using cosine similarity comparison.
- Suggest the most common skills necessary for that job title.

Social Media Sentiment Analysis - Major Airlines
Nov 2016 to Nov 2016

- Explored the sentiment of tweets directed at major airlines as an example of how machine learning can leverage data from social networks to make data-driven business decisions.
- Natural language processing: TF-IDF, latent semantic analysis and a 'bag of words' approach.
- Utilizes PCA and SVD for feature reduction.
- Compares multiple clustering models.

skills

Machine Learning
Natural Language Processing
Recommender Systems
Python
Java
HTML/CSS
Data Visualization (Seaborn, Tableau, Matplotlib)
Web Scraping
Pandas
ETL
SQL
MongoDB
APIs
Chron Jobs
Big Data (Hadoop, AWS, S3, SPARK, HIVE, HUE)
A/B Testing
Time series data
Algorithms and Data Structures
Web Crawling

education

General Assembly
Data Science Immersive 2016

University of Wisconsin-Madison
BS Geography 2013
BS Environmental Studies 2013