

Jordan Hiatt

Data Scientist

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EDUCATION

University of Virginia, Anticipated Summer 2022

MS Data Science Candidate

Brigham Young University, 2013

BS Accountancy

PROJECTS

Computer Vision in Neuroscience (In progress)

- Assisting the Clandinin Lab at Stanford University as part of a 3-person UVA Data Science student team
- Optimizing a model that isolates target neurons of *Drosophila* in recorded video data using the CalmAn package in Python
- Creating a model that will classify the neurons as one of 5 types based on calcium response and stimulus data

Visualizations

- Created an interactive US choropleth map showing county level data, built with D3.js, showing unemployment, presidential election and population data to illustrate problems in common data visualizations and point to a better way
- Data gathered from US Census, MIT Election Lab and Bureau of Labor Statistics and cleaned and structured in Python
- Analyzed results, determined benefits and drawbacks from visual approach, and planed a linear regression approach for future analysis

Big Data

- Gathered, explored and sampled millions of rows of Reddit comment data to navigate common methods at a large scale
- Created a pipeline to vectorize comment data, perform feature engineering, to facilitate training and classifying Reddit comments into 1 of the 100 most popular subreddits
- Built with Spark using Python in UVA's high performance computing cluster
- Familiar with DataBricks and big data diagnostics and tools

Natural Language Processing/Text Analytics

- Pulled in the entire corpus of Arthur Conan Doyle, cleaned and structured the data and ran analysis to explore differences between his Sherlock Holmes and other works to potentially create a predictive model
- Explored using PCA, Word2Vec, tree-based models, topic modeling, and plot comparison using the Syuzhet model
- Concluded that word frequency techniques were ineffective due to Doyle's consistent style, though tree-based models using TFIDF showed promise

Categorization

- Classified pixel data in a unbalanced data set, where only 3.3% belonged to the target class, to identify blue tarps in an emergency rescue scenario
- Compared logistic regression, LDA, QDA, KNN, elastic net regression, random forest, and SVM with both a linear and a radial kernel at multiple thresholds calculated using ROC curves and precision recall curves

SKILLS

Python, R, PySpark, Spark, Inferential statistics, Relational databases, Machine learning, Pandas, NumPy, Linear regression modeling, Bayesian machine learning, Hypothesis testing, SQL, PostgreSQL, JavaScript ES6 and frameworks, Git, MongoDB, Agile delivery, Scrum

EXPERIENCE

Business Analyst

ProfitOptics | Richmond, VA | November 2018 - April 2020

- Mapped complex data structures involving medical inventory and confidential patient information for mobile and web

- Utilized PowerBI to analyze data, created visualizations, interpreted data to identify key metrics and presented conclusions to the executive team
- Lead the requirements gathering, development and launch of data-heavy mobile and web apps that help healthcare clients better manage, understand, and utilize their data
- Performed industry and competitor research in a variety of industries both in collaboration with our sales team and to pitch customized solutions to fit current client needs
- Managed teams of 2 to 10 people with overlapping timelines, utilizing principles of Agile and SCRUM methodologies.

Intern Full-Stack Web Developer

Fohr | New York, NY | September 2018 - November 2018

- Implemented integration tests using Rspec and Capybara
- Resolved full-stack product support request for Rails sites
- Built functionality for innovative new app utilizing Instagram's API

Full-Stack Web Developer, Co-founder

Design Make Experiment | New York, NY | June 2017 - September 2018

- Collaborated on Ruby-on-Rails web apps for non-profits nationwide on a team of 15 developers, directly interacting with the client and product team
- Build front-end and back-end functionality based on product and design requirements, including custom algorithms

Fund Accountant

Maitland Group | Richmond, VA | October 2015 - October 2017

- Accounted for 11 Private Equity funds of varying size and international scope
- Initiated and implemented a fund reporting schedule for accounting team increasing productivity by 50%

Business Analyst, Founding Member

Flagship Health | Williamsburg, VA | April 2015 - October 2015

- Conducted extensive industry and market research, to determine market trends and make a persuasive business case backed by data
- Spearheaded market analysis for brand strategy and competitive market positioning
- Forecasted budget under multiple scenarios leading to critical business decisions

Staff Accountant

Ernst & Young | Richmond, VA | October 2013 - April 2015

- Audited banking and insurance clients, midsized and fortune 500
- Obtained deep understanding of a variety of financial industries and regulations

CERTIFICATIONS

Certified Public Accountant, Virginia, 2015

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