Benjamin Abraham

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Education

University of Michigan **Ann Arbor, MI**
Bachelor's of Science in Computer Science *August 2020-May 2024*

- GPA: 3.8
- Minoring in Applied Statistics
- Course Highlights: Data Structures and Algorithms, Foundations of Computer Science, Applied Statistical Methods II, Programming and Intro Data Structures, Discrete Mathematics, and Introduction to Statistics and Data Analysis.
- Awards/Honors: University Honors (Fall 2020, Winter 2021, Fall 2021, and Winter 2022)

Professional Experience

Lineage Logistics
Data Engineer - Part Time *August 2022-Present*

- Using Python and Snowpark, develop routines utilizing machine learning and statistics to quantify data quality in multiple datasets greater than one million rows.
- Research various approaches, algorithms, and Python libraries for anomaly detection.

Lineage Logistics
Technology Intern - Data Technologies *May 2022-August 2022*

- Built a web application for data profiling to provide technology teams with a tool for exploratory data analysis and visualization.
- Constructed a clustering algorithm from scratch that leveraged natural language processing and geospatial data to make predictions on over 400 thousand rows of data.
- Wrote routines to clean and geocode hundreds of thousands of rows of data using Python via a connection to a Snowflake Data Warehouse.

Carl's Golfland at St. Johns
Shoe Sales Specialist *May 2021-August 2021*

- Tracked quantities of items for customers in an inventory management system.
- Assisted customers with all possible needs including purchasing new shoes, warranty issues, and general shoe-care questions.

Technical Projects

Fantasy Football Machine Learning Web Application
Source Code and Link Available on GitHub (bpabraham123) *August 2022*

- Researched a variety of machine learning algorithms and different approaches to build the most optimal solution.
- Built a machine learning algorithm that imploys multiple xgBoost models to predict a range of fantasy football points.
- Developed a modern web application for displaying the model's predictions along with a section for viewing historical data both in a tabular format as well as in a graphical format.

Skills

Technical Skills

- Programming Languages: Python, C++, R, SQL, HTML, CSS
- Other Technical Skills: Git, Statistical Analysis, Data Visualization, Machine Learning (Regression, Multi-Variate Bernoulli Naive Bayes Classification, and xgBoost among others), Streamlit, Snowflake, Excel, and Data Structures and Algorithms.

Currently Improving

- Languages and Frameworks: Javascript, React, and Flask
- Others: Web Systems and Computer Organization