Thomas Hur

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Technical Skills

Computer Languages: Python, SQL, C++, Java
Frameworks: PySpark, TensorFlow, Pandas, Numpy, Scikit-Learn, Hadoop, Matplotlib, BeautifulSoup
Coursework: Computer Systems I & II, OOP, Data Structures, Calculus, Linear Algebra, Number Systems

Education

State University of New York, Binghamton — **Expected May 2021**
Thomas J. Watson School of Engineering and Applied Sciences — GPA: 3.19
Bachelor of Science in Computer Science and Economics

Professional Experience

McAfee — **Plano, Texas**
Incoming Data Analyst Intern — May 2020 - Aug 2020

Xaltius Tech Pte Ltd — **Kent Ridge, Singapore**
Data Science Intern — June 2019 - August 2019

- Built several financial use cases with PySpark pipelines to market to customers including Kickstarter Success and Financial Auditing
- Constructed multiple models of algorithms such as Support Vector Machines and utilized methods like Gradient Boosting and Cross Validation to achieve highly accurate models
- Collaborated with marketing interns to design multiple presentations using Canva to showcase machine learning projects to consumers and businesses

TakenMind Organization — **Remote**
Data Analyst Intern — October 2018 - December 2018

- Discovered key parameters that led to high employee turnover by implementing multiple machine learning models like SVM, Decision Trees, Random Forest, and Naive Bayes
- Utilized multiple classification algorithms on the popular iris flower dataset to label each individual flower as either Iris setosa, Iris virginica or Iris versicolor

Project Experience

Asian Recipe Data Analysis — **git.io/JeAvs**

- Established a dataset of over 1,400 recipes and 9 features from the Woks of Life, an Asian recipe website, using a Python script developed with Requests, BeautifulSoup4, and JSON.
- Conducted standard data cleaning procedures using Regex and Boolean indexing
- Visualized trends between features with the Matplotlib, Seaborn, and WordCloud libraries

Credit Card Fraud Prediction — **git.io/JeAvY**

- Administered in-depth analysis of a Kaggle Credit Card Fraud dataset containing over 284,000 transactions and 28 features using PySpark, SQL, and IPython.
- Composed deep learning models with Keras/TensorFlow as well as SVM, LR, and DTC to develop models that correctly identified fraud with 98.12% accuracy
- Optimized an SVM model with Cross Validation and Ensembling to boost accuracy further to 98.87%

Competition Experience

Fizzle — **devpost.com/software/fizzle**
7th Annual HackBU — February 2020

- Deployed “Fizzle”, a dating website to find your archnemesis using Python, Django, HTML, CSS, and JS
- Leveraged a SQLite backend to create a encrypted login system with the PBKDF2 algorithm and SHA256 hash

Google Coding Competition — **Binghamton, New York**
4th place — September 2019

- Placed 4th out out of 27 teams; used Python and C++ with common algorithms like binary search, depth first search, and more to solve questions like the “Number of Islands” problem
- Collaborated with team to develop solutions to complicated math puzzles in topics like linear algebra, probability, statistics, and calculus