

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

Thomas J. Watson School of Engineering and Applied Sciences

Bachelor of Science in Computer Science and Economics

Expected May 2021

GPA: 3.19

Professional Experience

McAfee

Incoming Data Analyst Intern

Plano, Texas

May 2020 - Aug 2020

Xaltius Tech Pte Ltd

Data Science Intern

Kent Ridge, Singapore

Jun 2019 - Aug 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

Data Analyst Intern

Remote

Oct 2018 - Dec 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
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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
 - 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%
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Competition Experience

Fizzle

7th Annual HackBU

devpost.com/software/fizzle

February 2020

- Deployed "Fizzle", a dating website to find your archnemesiis using Python, Django, HTML, CSS, and JS
- Created an algorithm relying on quiz results & feature importances to match users with users already in the database
- Leveraged a SQLite backend to create a encrypted login system with the PBKDF2 algorithm and SHA256 hash

Google Coding Competition

4th place

Binghamton, New York

September 2019

- Placed 4th 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