Andrew Cummings

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EDUCATION

Syracuse University, School of Information Sciences   Aug 2020-May 2021
 Certificate of Advanced Studies, Data Science, GPA: 3.78/4.0
Relevant Coursework: Big Data Analytics, Data Science, Database Management, Scripting for Data Analysis

Syracuse University, College of Arts and Sciences   Aug 2016-May 2020
 B.S. Applied Mathematics, GPA: 3.44/4.0
Relevant Coursework: Mathematical Data Science, Statistics, Probability, Regression Analysis

PROFESSIONAL EXPERIENCE

Actuarial Intern | Benefit Plan Administrative Services   June 2020-Aug 2020
- Created time sensitive data visualizations, statistical analysis, dashboard designs using Excel for client presentations
- Performed market competitor research with datasets >300,000 tuples, working with multiple incomplete formats

Coordinator and Tutor | Neighborhood Learning Alliance   June 2019-Aug 2019
- Tutored class of underprivileged high school graduates and high school seniors in college level writing class
- Coordinated all communication between staff and students regarding compensation and assignment deadlines
- Assisted in planning lessons, helped students one-on-one, taught valuable writing and reading strategies

Research Intern | U.S. Naval Research Laboratory   June 2018-Aug 2018
- Designed a swarm simulation using Matlab, which modeled complex interactions between 50-400 swarm agents
- Constructed videos displaying experimental swarms, showcased at Office of Naval Research Yearly Conference
- Presented research findings at Mathematics Honor Society event, work featured in Math Department Newsletter

PROJECTS

Song Recognition Database | Azure Data Studios, scribble.io   Nov 2020-Dec 2020
- Designed database for a "shazam-like" app, implemented Enigma app from ERD phase through PowerApps demo
- Devised and wrote up-down, insert scripts, project design and output were thorough and received near perfect marks

Tensorflow Handwritten Digit Recognition | Python Jupyter Laboratory   Oct 2020-Oct 2020
- Goal: Implement a machine learning algorithm using Tensorflow package for image recognition on 70,000 image set
- Evaluated dataset with *relu*-activated neural network achieving 97% accuracy, confusion matrix generated for demo

Social Media and COVID-19 | Python Jupyter Laboratory   Nov 2020-Dec 2020
- Goal was to investigate relationship between twitter hashtag sentiments and new COVID-19 cases across 48 states
- Used Pandas, Scikit-Learn, and NLP libraries to run regression analysis and displayed results in scatterplots and maps

Airline Performance Insight | R Studio   Oct 2020-Dec 2020
- Goal was to provide airline company with actionable insight to increase NPS score given 80,000 tuple dataset
- Deployed associative rules mining, text mining and exploratory analysis to present company with courses of action

LEADERSHIP

Captain | Syracuse Division I Varsity Rowing Team   May 2019-May 2020
- Elected Captain for the 2019-2020 season, lead team to achieve an upward trend both culturally and competitively
- Recipient of the 2019 and 2020 Godfrey Rower of the Year Award for outstanding values as a Syracuse Oarsman
- Helped team to 3 top 10 national finishes, beating Brown, Northeastern, Dartmouth and Princeton in Fall 2019 in the
- Dedicated 20 hours/week since fall 2016 to training with full course load, organized yearly cancer fundraiser in 2019

SKILLS AND INTERESTS

Technical: Python, SQL, R, Java, MATLAB, Statistics, Conceptual Data Modeling, Logical Data Modeling, Regression Analytics, Text Mining, Machine Learning, Supervised Learning, RestAPI, Excel, PowerPoint, Tableau, Data Mining, Predictive Analytics, Scrapy, Numpy, Pandas, Scikit-Learn, Matplotlib, SVM, GGplot, k-NN

Interests: Random Forest Algorithms, Clean Code, Epidemiology Statistics, Biking, Billiards, Basketball, Fantasy Football, Interpretation of film, Soundtracks, Cooking