ANDREW LEE

@ andrew.lee1@richmond.com   📞 919-696-9442   in https://www.linkedin.com/in/andrew-lee-501161194/   🔗 https://al3kq.github.io

EXPERIENCE

Certilytics Incorporated
Financial Research Project

📅 June 2020 – August 2020   📍 Remote

- Wrote a detailed report analyzing the relationship between inflation and unemployment rate.
- Used R to create an ad-hoc model for distributed time series analysis to determine relationship.
- Preformed under instruction of Kevin Prybol, Senior Data Scientist.

Protochips
Technician

📅 June 2016 – August 2018   📍 Morrisville, NC

- Programmed and assembled precision controllers for electron microscope holders.
- Trusted upon within a small team of engineers for three summers.
- Assisted with presenting products to potential clients.

PROJECTS

Predicting the Success of a Marketing Campaign

- Analyzed customer's data to determine the importance of various features.
- Optimized various machine learning methods to improve accuracy on training set. Applied RandomSearch on StratifiedKFold to account for imbalanced data.
- Achieved a significantly high accuracy and F1 score on a test set.

Earning Potential Based on Various Characteristics

- Created a multinomial logistic regression using R to find trends in earning potential.
- Visualized the marginal effect of different characteristics (gender, education, etc.) on their probability of earning above $50,000.
- Assessed the accuracy of my model using various statistical tests and metrics.

A Single Artificial Neuron in Excel

- Calculated the feed-forward and backpropagation of an artificial neuron using excel functions.
- Created two logical AND & XOR neurons and used handwritten functions to optimize their weights.
- Reinforced my understanding of the mathematical intuition behind optimization functions.

SKILLS

`UNIX Scripting` `Git` `pandas` `Tensorflow` `scikit-learn` `PostgreSQL` `Excel` `Jupyter` `Plotly`

EDUCATION

Bachelor of Science, Mathematical Economics
University of Richmond

📅 May 2021

- Major in Mathematical Economics
- Minor in Computer Science

ACTIVITIES

Data Science Club
President, Founder

📅 October 2020 - Current

- Set and moderated goals for the club, oversaw the creation, and recruited new members.
- Coordinated biweekly meetings, datathon competitions, and data scientist speakers.

Economics Society
Senior Member

📅 October 2017 - Current

- Participated in monthly meetings to discuss recent economic changes and modern theories.
- Got to know my professors and classmates better.

Special Olympics Virginia
Fundraiser

📅 October 2017 - Current

- Fundraised over $20,000 a year with a group of friends towards the Special Olympics Virginia.

LANGUAGES

Proficient: Python, R, SQL
Working Knowledge: Java, C++, VBA, HTML&CSS

INTERESTS

- Soccer
- Mandarin Chinese (8 years of experience)
- Cello