George Rogalskyj

96 Main St.• Livonia, NY 14487
Cell: (585) 766-5405 • gar232@cornell.edu
Github: grogalskyj

Education

BS Statistics (Minor: Computer Science), Cornell University
Degree anticipated December 2022
Cumulative GPA: 3.4

Coursework

| Statistics I | Statistics II | Probability Models and Inference | Mathematical Statistics | Calculus I | Calculus II | Calculus III | Linear Algebra | Stochastic Processes | Intro to Python Computing | Unix Scripting | Object Oriented Programming and Data Structures | Discrete Structures | Intro to Machine Learning |Statistical Computing | Metabarcoding Informatics | Physics I | General Chemistry I | General Chemistry II | Database Systems |

Technical Skills

Languages: Python, R, JavaScript, Java, HTML, CSS, SQLite
Packages: NumPy, Pandas, Matplotlib, TensorFlow, sklearn, jQuery, AJAX, D3JS
Tools: Django, Flask, Jupyter, Eclipse, Linux, Git, Visual Studio, R Markdown, R Studio

Research and Professional Experience

Tokyo Electron Enterprises – Modeling and Artificial Intelligence Team
Data Modeling Intern (May 2021- December 2021)

- Prepared and Executed Global Model Simulation Tools in Linux Terminal and Jupyter Notebook
- Improved Global Simulation Automatic Output Software by making plotting feature interactive using Jupyter widgets and matplotlib, pandas, NumPy libraries
- Evaluated internal Machine Learning Software using ANOVA, Monte Carlo Cross Validation (MCCV). Compared models against sci-kit learn algorithms

MIT Sustainability and Health Initiative for a NetPositive Enterprise (SHINE)
Full-Stack Development and Business Intern (May 2020- August 2020)

- Integrated Front-end with Back-end for an interactive Life Cycle Assessment (LCA) Calculator, easing the use of standardized databases for business with standard economic data; used Django framework, python, REST, JavaScript, HTML and CSS
- Introduced the LCA calculator to several startups looking to calculate their emissions footprint and targeted parts of their business where emissions could be most effectively cut

Statistical and Computer Science Projects

Stack Cup Simulator

- Modeled the popular college game 'Stack Cup' as a Discrete-Time Markov Chain (DTMC) in python. Implemented different player strategies and analyzed outcomes using Monte Carlo Simulation
- Currently Developing Full-Stack web application using Python Flask, JavaScript, HTML, CSS and NumPy, pandas, jQuery, networkx libraries

Covid-19 Hospitalization Prediction (CS 4780)

- Machine Learning Final Project: Predicted Covid-19 Hospitalization rates using NumPy, pandas, sklearn Implemented K-Nearest Neighbors, Linear Regression, and Neural Network Classifier (Finished 21st out of 80 Teams)

SHINE Emission Calculator

- Integrated user friendly Front-end with Back-end by learning JavaScript, HTML, CSS languages, Django Framework and D3JS, jQuery, python, pandas, NumPy libraries
- Tested UX, interface with startups with interest in cutting carbon emission costs; took feedback and further refined input/output flow

Interests: Baseball, Soccer, Reading, Hiking, Music