Gregory Simon
Data Scientist & Statistics Faculty

Programming, math and statistics, machine learning, a team mindset, clear communication

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EDUCATION

Ph.D. in Mathematics
University of Michigan

2016

Thesis/Focus

- computational linear algebra problems in algebraic quantum field theory / 'monstrous mooshine' using Mathematica

B.A. in Mathematics
University of California, Santa Cruz

2010

Achievements

- cum laude & highest honors in the major of mathematics

WORK EXPERIENCE

Data Science Consultant
TrainX

06/2019 – 08/2019   *Detroit, MI*

Training practical data & machine learning skills with community and business projects

Achievements/Tasks

- co-lead for team of five student practitioners in 8 week image recognition project

Contact: Aubrey Agee – aubrey@trainx.ai

Course Faculty in Statistics
Western Governors University

2017 – Present

Achievements/Description

- Outstanding student evaluations available upon request
- Used Python, Googlescript/Javascript, SQL to create and maintain automation pipelines, a dashboard, and gather student analytics to improve team and student performance
- Responsible for pedagogical team data visualization tasks (in Python)

Lecturer in Mathematics
University of Michigan

2016 – 2017   *Ann Arbor, MI*

Achievements/Description

- Primary Instructor for Calculus series

SKILLS

`Python` `Machine Learning` `Statistics` `Probability` `Deep learning` `NLP` `Data Visualization` `SQL` `Data Wrangling` `Mathematics` `Linear Algebra` `Web Scraping` `Linux` `Amazon Web Services (AWS)`

SELECTED PROJECTS

Predicting User-defined spending categories (2020)

- AWS API Gateway, Lambda, DynamoDB to gather credit card transactions real time
- Using search results for transaction location + NLP (TF-IDF and SVM), reached 75% accuracy in predicting user's custom category label

Image recognition with TrainX (2019)

- Co-lead of team of five creating minimal viable product for image recognition to predict make and models from web cam car images with connection to Green Light project in Detroit
- using AWS Sagemaker & EFS, various convolution neural network architectures and implementations, web scraping to gather training image data

Analytics on assessment data (2019 – Present)

- Using Python [selenium, BeautifulSoup, pandas] to scrape HTML data of student progress & practice assessment results
- Using machine learning models to determine feature importance
- Used to determine effective/ineffective practice problems and improve WGU course curriculum

Student outreach automation pipeline in Python (2018)

- Using Python, SQL, pandas to gather team data and send personalized recommendations and resources to students after triggers
- Used by team of 10 instructors daily for over a year before enterprise solution was piloted and launched across university

CERTIFICATIONS/TRAINING

AWS Certification - Machine Learning Specialty (02/2020)
Credential ID RX11FD2CEB4E1WKF

DataCamp - Data Scientist with Python (2018)
21 courses covering: gathering & cleaning data with pandas & SQL, supervised & unsupervised learning with scikit-learn, deep learning with keras, etc.

June 20, 2020