



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 moonshine' 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 – 8/2019

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

June 20, 2020

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

Prescriptive analytics on assessment data (2018 – 8/2019)

- 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.