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DATA SCIENTIST
GitHub: <https://github.com/mguemon>
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Personal site

Data scientist candidate skilled in implementing machine learning to solve business problems. Experienced with Python, SQL, sci-kit learn, seaborn, matplotlib, and experimental design.

Skills

Advanced: Python, pandas, visualization with seaborn and matplotlib, SQL, regression, classification, Matlab...
Proficient: Supervised, Unsupervised learning, clustering algorithms...
Expert: Written & verbal communication, Research, Teaching.
Certification: Machine Learning (Online Course, Stanford University).

Recent Projects

Supervised Capstone: (<https://github.com/mguemon/Thinkful-/tree/master/Capstone%20Unit%203>)
In this capstone I looked at the Airbnb Data for the city of Seattle in 2014. Using Random Forest Classifier, was able to identify features in the data that were important to make prediction about availability of Airbnb Listings. This was achieved using Gradient Boosting.

Capstone Unit 1: (https://github.com/mguemon/Thinkful-/blob/master/CapstoneProject_Unit1.ipynb)
In this capstone I looked at the data from Airlines in the US during the year of 2008. The goal here was to find a way to decrease departure delays for United Airlines. Used A/B Testing for the experiment to identify what features were needed to solve the problem.

Experience

MOREHOUSE COLLEGE

Assistant Professor

Atlanta, GA
August 2016 – Present

- Worked with a student on their Senior Seminar project: “Classification with Support Vector Machine”.
- Organized, planned and executed lectures for class sizes of 15 to 35 undergraduate students.
- Prepared syllabus and course materials.
- Wrote exams and exams keys.
- Held regular office hours for students.
- Used technology including MyMathlab and WebAssign to assign homework.

NORTH CAROLINA STATE UNIVERSITY

Instructor

Raleigh, NC
June 2013 – July 2015

- Organized, planned and executed lectures for class sizes of 15 to 150 undergraduate students.
 - Preparing the syllabus and course materials.
 - Wrote exams and exams keys.
 - Held regular office hours for students.
 - Used technology including WebAssign and Maple to assign homework.
 - Directed Recitation leaders on their duties.
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Education

THINKFUL

Data Science Program

July 2018

- Completed intensive data science program with a focus on Python, mathematical tool-sets, statistical analysis, and big data techniques including machine learning.
- Learned industry best practices and standards by collaborating several hours every week with a senior data scientist.

NORTH CAROLINA STATE UNIVERSITY

PH.D, APPLIED MATHEMATICS

August 2015

GPA: 3.05 / 4.0

- Dissertation Topic: Nonlinear Filtering Problems for systems governed by PDEs
- Qualifying exams passed: Matrix theory, Numerical analysis, Linear Algebra