Reid Case

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EDUCATION

Master of Science in Computer Science Expected: December 2020
DePaul University

Bachelor of Science in Applied Computing, Systems & Technology December 2010
Minor in Small Business Development
Tulane University

TECHNICAL SKILLS

Languages and Technologies: Python, R, SQL, Java, JavaScript, Scikit-Learn, Git, Docker, Seaborn, Keras, MongoDB, plot.ly, Node.js

Skills: Data wrangling, cleaning and preprocessing, feature engineering, visualization, hypothesis testing, regression analysis, clustering, classification, graph traversal, object oriented programming, distributed systems and multiprocessing programming

RELEVANT COURSEWORK

Programming Machine Learning Applications, Artificial Intelligence, Fundamentals of Data Science, Data Analysis and Regression, Time Series Analysis, and Distributed Systems

DATA SCIENCE PROJECTS

Boston Crime Data Regression Analysis November 2019
- Contributed to a group project aimed at performing rigorous analysis of crime data sourced from the city of Boston.
- Employed exploratory analysis, data cleaning and preprocessing in R to identify relationships between a variety of explanatory variables and particular crime statistics over the sample period.
- Specifically contributed regression analysis of police station distance from reported crime location as a response variable to multiple physical and environmental factors.

Analysis of Cycling Performance Data June 2019
- Compiled dataset of geolocation, physiological response, environmental and other bicycling performance data from associated cyclists.
- Performed data cleaning and preprocessing including imputation, unit conversion, and anomaly correction using Python and appropriate packages; numpy, pandas, multiprocessing, and sci-kit learn.
- Compared performance of classifier and regressive models for heart rate response and power prediction.
- Developed genetic optimizer class for parameter tuning. Contrasted performance between multithread and multiprocessing methods to gain a better understanding of GIL limitations in Python.

Joke Text Recommender System June 2019
- Python implementation of K-Nearest Neighbors based text sequence recommender employing standard and SVD estimators combined with Euclidean distance, cosine similarity, and Pearson's correlation coefficient as measures of similarity.

Markov Chain Name Generator April 2019
- Pedagogical exercise implementing a Markov Chain based name generator in Python.

Flat Builder Application June 2018
- Contributed to the creation of a Python application intended for use calculating "cut sheets" for the construction of set background flats by establishing object oriented architecture for application and conducting code reviews to preserve structure.

PROGRAMMING & TECHNOLOGY EXPERIENCE

- **Core systems Programmer Analyst,** SkyOne Federal Credit Union April 2018-Present
- **IT Support Programmer,** RiverLand Federal Credit Union March 2012-July 2017

INVOLVEMENT & FREELANCE

- **D4G (Data for Good) -** Volunteer August 2019-Present
- **Buzzfeed, Inc -** Freelance Set Carpenter - Art Department August 2017-April 2018