Reid Case

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TECHNICAL SKILLS

Languages and Libraries: Python, SQL and R.

Databases: Microsoft SQL Server and the Hadoop Ecosystem.

Technologies and Environments: Git, Linux, Amazon Web Services.

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

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

RELEVANT COURSEWORK

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

PROJECTS

Boston Crime Data Regression Analysis November 2019
- Contributed to a group project analyzing crime data sourced from the city of Boston.
- Conducted exploratory analysis, data cleaning and preprocessing in R to identify relationships between explanatory variables and crime statistics over the observation period.
- Performed regression analysis of station distance from reported crime location, as the response variable, with multiple physical and environmental explanatory variables.

Analysis of Cycling Performance Data June 2019
- Compiled coordinate, physiological response, environmental and other bicycling performance data from cyclists.
- Performed data cleaning and preprocessing including imputation, unit conversion, and anomaly correction using Python packages; numpy, pandas, multiprocessing, and sci-kit learn.
- Compared results of classifier and regression models for heart rate response and power prediction.
- Developed optimizer class for parameter tuning. Contrasted performance between multithread and multiprocessing methods.

Text Recommender System June 2019
- Python implementation of K-Nearest Neighbors text-sequence recommender system using 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.

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