

Steven McAteer

BS/MS Computer Science, Data Science

Data scientist with strong computer science background, specializing in machine learning, predictive analysis and data processing. Seeking to apply my skills in a challenging and collaborative environment.

Education

- May 2019 **Worcester Polytechnic Institute (WPI), Worcester, MA**
Bachelor of Computer Science, Minor in Data Science
GPA: 3.57, Graduated with Distinction
- May 2020 **Worcester Polytechnic Institute (WPI), Worcester, MA**
Master of Computer Science

Experience

- June 2019 – present **Data Science Fellowship, ASSISTments, WPI**
- Constructed models for a randomized control trial to understand effect of automated open-response grading on student learning
 - Leveraged Rasch model to identify correlation between student performance, teacher grading, and open-ended response accuracy
 - Created LSTM recurrent neural network with GloVe word embeddings for context-based natural language processing
 - Cleaned live student response data using Python to fix discrepancies during preprocessing stage
 - Developed Data Mining Competition website to handle registration, submissions, and evaluation of predictions
- June – Aug 2018 **Data Analytics Intern, United Parcel Service, Wayne, NJ**
- Helped UPS distribution center managers schedule staff more effectively
 - Developed PowerBI dashboards to predict seasonal workforce needs
 - Calculated utilization levels for all employees to maximize scheduling efficiency and save valuable man-hours
 - Designed star schema database with multiple live data sources
- June – Aug 2017 **Application Development Intern, United Parcel Service, Wayne, NJ**
- Automated internal project planning tools to track progress for teams
 - Developed time-saving custom chart import feature for an app used by key UPS customers to calculate shipping incentives

Projects

- Aug 2018 – April 2019 **Spotify Playlist Continuation, Master Qualifying Project, WPI**
- Implemented methods to recommend new music for a given playlist
 - Created recommender system models using Python to predict music preferences for users with Spotify's million playlist dataset
 - Implemented matrix factorization with features pulled from Spotify API
 - Designed neural network model with non-linear regression to optimize results
- Aug 2018 – present **Rush Roster: Full Stack Web-App, Tau Kappa Epsilon Fraternity, WPI**
- Streamlined fraternity recruitment process with full stack web-app
 - Used React, Node.js and Semantic UX to handle potential new members
 - Ensured secure user accounts and data retention with Firebase backend
 - Implemented conditional rendering based on user permission levels
- Oct – Dec 2017 **Smart Heating Analysis Utility, University of Worcester, UK**
- Used smart heating devices to determine ways to save energy and money
 - Received **Green Apple Environmental Award** from *The Green Organisation*
 - Gathered log data from Worcester-Bosch smart learning thermostats to predict winter heat consumption using various metrics

Personal Info

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Courses

Artificial Intelligence
Foundations of Data Science
Data Mining & Knowledge Discovery
Big Data Management
Big Data Analytics
Machine Learning in Cybersecurity
Database Systems
Object Oriented Analysis & Design
Algorithms
Software Engineering
Information Security Management
Software Security Engineering
Webware

Languages

Python, R, Java, JavaScript, SQL, C, C++, HTML5, CSS3

Skills/Frameworks

Git, React, Data Cleaning, PowerBI, Keras, Hadoop, Spark, NoSQL, Pandas, PyTorch, NumPy

Leadership

Tau Kappa Epsilon, Rush Chairman, Web Chairman
WPI Radio, Tech Director
Gompei's Goat Cheese, Chief Marketing Officer