Sean Jin

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Passionate in making an impact through product management, software engineering, and data science on communities and businesses. Seeking internship opportunities in product management, data science, and software engineering.

Work History

2020-02 Current
10-716 Teacher Assistant
Machine Learning Department, Pittsburgh, PA
-Adjusted Machine Learning homework assignments through LaTEX for it to portray the proper difficulty of the class
-Increased student and teacher assistant communication by 15% through communication from forms and piazza

2019-11 Current
Machine Learning Research Assistant
AiPEX Lab, Pittsburgh, PA
-Incorporated Q-Learning by parallel processing using multiprocessing package to decrease learning rate by 50%
-Created a gym environment to visualize hierarchical machine learning through Q-learning and multi-armed bandit processing

2019-06 2019-09
Data Science/Full Stack Intern
CertAInBuild, Remote
-Developed a MVP and was used as a demonstration to potential stakeholders and vision for the company
-Applied multiple packages such as Sklearn, Flask, and SQL Alchemy and used Python, HTML, Javascript, CSS, and SQL in order to create the MVP
-Incorporated a scrum-like frame work, so UML diagrams and use cases can fill up the sprints leading up to development of an MVP

2016-06 2018-08
Teacher Assistant
M.E.K Review, Palisades Park, NJ
-Taught other Teacher Assistants in becoming efficient with workflow, which resulted in an increased overall workflow among Teacher Assistant by 30%
-Developed habits and improved grading efficiency and accuracy by 20% with no assignments returned

Projects

Spring 2020
Expectancy Run Charts
-Utilized Markov Chains to get the expected runs for NCAA Division 3 Softball Games
-Cleaned data collection by converting the lists of games of over 1000 games into parameters of the states and actions of any NCAA Division 3 Softball Games
-Derived probabilities of certain actions such as bunting and stealing for any state of the game

Fall 2019
Estimated Taxi Travel Time
-Extracted new features based on Taxi-Zone location within New York City
-Utilized Neural Networks in order compare it to other Machine Learning Algorithms through sklearn

Fall 2019
Gotta Graph Them All
-Implemented PCA in order to differentiate Legendary and non-legendary Pokémon based on stats
-Extracted Pokémon base stats in order to see the individual distributions between each of Pokémon

Spring 2018
PVP Platform
-Established different types of enemies that had different mechanics to be an obstacle for a PvP game
-Implemented 4 different classes of characters that allowed players to pick from that have different skills

Education

BS in Statistics & Machine Learning
Carnegie Mellon University
Expected Graduation: May 2021
Additional Major: Cognitive Science
Minor: Computer Science

Skills

Programming
Python: Proficient
R: Intermediate
C: Intermediate
SML: Intermediate
Java: Intermediate
SQL: Intermediate

Coursework

Past Coursework:
Machine Learning (PhD)
Modern Regression
Stat Computing
Stat Visualization & Graphics
Probability Theory
Algorithms & Data Structures
Functional Programming
Math Concepts & Proofs
Calculus in 3D
Matrix Algebra

Present Coursework:
Analytic Research Methods
Advance Data Analysis
Modal Logic
Sports Capstone

Extracurriculars

Lunar Gala: Model
Central Church: Bible Study Leader
CMU Powerlifting: President, State Champion