Aaron Broukhim

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Summary

Looking to apply machine learning related skills from research, personal projects, and school to industry. I'm a fast learner, willing to take initiative, and am willing to work remotely or in person while contributing to a positive work environment.

Education

B.S. in Cognitive Science: Machine Learning & Neural Computation — 2019-2021
Minor in Computer Science & Engineering — GPA: 3.6
@ University of California, San Diego

Supervised/Unsupervised/Reinforcement/Deep Learning,
Genetic Algorithms, Knn, K-means, EM Maximization, Bellmans Equation,
Monte Carlo, Q-Learning, Linear/Logistic Regression, GAN, CNN, RNN

Computer Science/Graphic Design — 2015-2019
@ Santa Monica College — GPA: 3.5

Engineering Physics, Data Structures, Assembly,
Typography, Color Theory, 3D Animation, Photography, Art

Skills

Languages - C, C++, Java, Python, R, SQL
Frameworks - Pandas, Scikit-learn, Tensorflow, Keras, Selenium, Seaborn, Matplotlib, NumPy
Misc - Illustrator, Lightroom, Maya, Photography, Git, mongoDB

Experience

Research Assistant — Summer 2021
@ UCSD: Computer Science & Engineering

-Web Scraped social media using Selenium and then made inferences on users that were missing data based on mutual friend information
-Designed logistic regression models capable of detecting hate speech on social media & used word embedding (Word2Vec) to bin dataset
-Store data in database using MySQL and conduct queries

Graphic Design Internships — Summer 2015, 2016 & 2017
@ Hotpoint App/Samuels Advertising

-Designed easy to understand one sheets for buyers

Projects

Snake Reinforcement Learning

-Utilized DynaQ-Learning and SARSA methods to play snake
-Compared the two methods performance within very small feature spaces

DJAI

-Developed models to classify spotify songs by emotion, to then classify ambient noise into an emotion to determine the music to play to fit the room's "mood"

cycleGAN

-Modified a GAN in Keras to transform Classical music to Blues and vice versa