

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, GAN, CNN, RNN	
Genetic Algorithms, KNN, K-means, EM Maximization, Bellmans Equation,	
Monte Carlo, Q-Learning, SARSA, N-step TD, Linear/Logistic Regression	
Computer Science/Visual Communications	2015-2019
@ Santa Monica College	GPA: 3.5
Engineering Physics, Data Structures, Assembly,	
Typography, Color Theory, 3D Animation, Photography, Art	

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	
-Designed geotags & for print illustrations	

Projects

Snake Reinforcement Learning
-Utilized DynaQ-Learning and SARSA methods to play snake
-Compared the two methods performance within small feature spaces
-Made custom gym environment and DQN agent as well
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
Brain Wave Depression Classification
-Analyzed EEG data of open/close eye state participants
-Classified participants as depressed or not by Alpha wave power

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