

Aaron Broukhim

broukhimaaron@gmail.com | github/linkedin: @aabroukh

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
-Created databases and conducted queries in MySQL on an AWS RDS instance

Graphic Design Internships Summer 2015, 2016 & 2017
@ *Hotpoint App/Samuels Advertising*
-Designed easy to understand one sheets for buyers
-Designed geotags & for print typographical illustrations

Projects

Snake Reinforcement Learning
-Utilized N-Step TD and SARSA methods to play snake
-Compared the two methods performance within small feature spaces
-Made a custom gym environment and deep Q-Learning agent as well

DJAI
-Developed models to classify spotify songs by emotion
-Developed another model to determine the mood of ambient noise in a room
-Utilized both models to play music that fit a rooms 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/closed 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, AWS, Linux, MySQL