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

Minor in Computer Science & Engineering

2019-2021

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

@ Santa Monica College

2015-2019 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, Linkux, MySQL