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 an inclusive 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, Statistics, Discrete Math, ML in Music, ML in BCls, Research Methods/Principles,

Data Representation, Advanced Data Structures, Algorithms, Human-Al interactions

Computer Science/Visual Communications

2015-2019

@ 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
- -Designed and implemented a UI in React with a Node backend
- -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 potential buyers
- -Designed geotags & for print typographical illustrations

Projects

Snake Reinforcement Learning

- -Utilized N-Step TD and SARSA methods to play snake
- -Designed a custom gym environment and deep Q-Learning agent

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, React, Node Misc - Illustrator, Lightroom, Maya, Photography, Git, AWS, Linux, MySQL