Jordan Moradian

http://www.jmoradian.com/

Education Tufts University, Medford, MA	2015-2019
B.S. in Applied Mathematics and Computer Science	
 <u>Relevant coursework</u>: Mathematical Neuroscience, Nonlinear Dynamics and Chaos, Mathematical Model Numerical Linear Algebra, Probability, Statistics, Real Analysis I&II, Machine Structure and Assembly Li 	ing, Complex Variables,
Programming Languages, Algorithms	anguage Flogramming,
 Extracurricular Activities: Varsity Crew Rowing Team, Member of Theta Delta Chi Fraternity 	
Work Experience	
Amazon Web Services, AI Rekognition, Seattle, WA	8/2019 - Present
oftware Development Engineer	G., (
 Developed and launched the Rekognition FaceV5 service API which dramatically improved latency by a base 3x as compared with the previous version 	factor of 2x and cost by a factor of
 Led the design and prototyping effort for a novel architecture of the Rekognition Face Search API which v costs by an estimated factor of 27x 	would reduce monthly backend
 Played a key role in new region launches for the Rekognition Image Inference services 	
Regularly work with members of the Rekognition Science team to evaluate updated models and integrate	them into the Rekognition APIs
Linden Lab, San Francisco, CA	5/2018 - 8/2018
 Data Science Intern Developed a machine learning based fraud detector for Second Life transactions 	
 Performed PCA/t-SNE on feature set to reduce dimensionality, selected classifiers for ensemble hyper parameterized the model and optimized for F1-Score of 98% 	method based on performance,
 Developed various classifier and regression models for customer churn as well as in-world retention and c 	
 Developed a model to categorize users based on in-world behavior via PCA, t-SNE, and k-means clusterin Conducted hypothesis testing of retention rates associated with populations from different in-world experi 	
Sufts Human Computer Interaction Lab, Medford, MA	4/2017 - 8/2017
oftware Development and Research Intern	4/2017 0/2017
• Implemented a deep deterministic policy gradient reinforcement learning algorithm in order to program a	simulated Valkyrie robot to
 perform a number of tasks in unknown environments for the NASA Space Robotics Challenge Developed a policy gradient inverse reinforcement learning algorithm that inferred reward and policy para 	amatara from as four as five ovro
agent trajectories in a continuous action and state space	anieters nom as rew as rive expe
Valleye Trading LLC, Boston, MA	5/2016 - 8/2016
oftware Development and Data Science Intern	
 Conducted statistical research on potential market predictors across multiple years of daily data intake Reformatted big data for purposes of visualization and statistical testing through R 	
 Developed interactive web-based programs using R-Shiny in order to present data visualization models 	
ADBiosciences Inc. , St. Paul, MN	5/2015 - 8/2015
Statistician	
Conducted statistical analysis of pre-clinical pharmaceutical trial data	
Projects	
CEG Brain State Predictor	5/2020 - Present
• Using 16 channel OpenBCI EEG headset to collect data during different activities	
 Developing models to: Detect and remove physical movement artifacts from data 	
o Infer activity (i.e., meditation/neutral, active listening — music, active reading, etc.)	
• With the long-term goal of detecting and anticipating various states of communication	10
 See project details at <u>http://www.jmoradian.com/assets/projects/EEG_Mental_Activity_Detector_Classific</u> 	<u>er.pdf</u> 3/2020 - Present
 Developing cloud based mobile application to provide small businesses with dynamic pricing solutions 	5/2020 - Fresent
 Visit <u>www.crawltechnologies.com</u> 	
LSTM Bitcoin Indicator, (Independent Study)	2/2018 - 5/2018
 Developed a recurrent neural net model to predict bitcoin price fluctuations using twitter sentiment feature Project A dvisory Professory Lining Line 	es
Project Advisor: Professor Liping Liu RL Market Predictor	7/2017 – 9/2017
 Developed a reinforcement learning based market predictor in Python using TensorFlow. 	//201/ = 9/201/
 Details at <u>https://github.com/imoradian/RLMarketPredictor</u> 	

Skills

Technical: I constantly work with many languages, tech stacks, and platforms as needed - I can pick anything up quickly. Most commonly used (in order of recency):

- Languages: Python, Java, SQL, R, C/C++
- <u>Platforms/Toolkits</u>: AWS (many services across the board), Grpc, Gunicorn, Tensorflow, Scikit-Learn, Keras, Numpy

Languages: English, Spanish, Arabic, Swiss-German