

MEHDI BOUASSAMI

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EDUCATION

University of California San Diego | 2019 - 2023 | GPA: 3.90 | Credits: 158 | Graduation year: 2023
B.S. Data Science, Minors in Mathematics and Entrepreneurship/Innovation (3.9/4.0 GPA)

RELEVANT COURSEWORK + SKILLS

Data Structures, Linear Algebra, Machine Learning, Systems for Scalable Analytics, Data Management (SQL), Probability and Statistics, Calculus, Probability and Statistics

Programming Languages

Python, SQL, Java, Matlab,
Javascript, R, HTML, CSS, NoSQL

Web/Mobile App Development

Django, Flask, React, React-Native,
Javascript, MongoDB

Machine Learning / Data

Scikit-learn, TensorFlow, PyTorch,
Keras, Matplotlib, BeautifulSoup,
Postgres, Dask, Apache Spark,
NumPy, Scipy, Pandas, Seaborn

WORK EXPERIENCE

Model-based targeted dimensionality reduction | Halicioglu Data Science Institute at UCSD | January 2021 – ongoing

Individual Research Project mentored by Professor Mikio Aoi

- Utilized MTDR, which encompasses a combination of Regression and dimensionality reduction techniques to demix the effects of different task variables on the activity of neural populations
- Wrote code for Gaussian and Poisson MTDR, compared both methods and was able to identify computational subspaces. Concluded that Poisson MTDR better described large population of neurons
- Currently finishing writing a paper on my work and will present my work at the Society For Neuroscience in November 2022

Theoretical investigation of a neural network model to understand the stability of information processing in the brain | UCSD | December 2020 – June 2021

Individual Research Project mentored by Professor Johnatan Aljadeff

- Started by computing the capacity of the perceptron model using machine learning. I then used pruning and saw how it affected the capacity of the model
- Concluded that capacity is reached faster with pruning
- Will write an academic paper with professor Aljadeff in April 2023

Data Science Intern | Snipfeed | July 2021 – ongoing | Paris France

Link in bio platform that turns creators into - Raised 6.4M\$ ([Crunchbase](#))

- Worked in a team of four data scientists and analyzed/predicted user behavior using pandas, Scikit-learn (machine learning) and probabilistic machine learning
- Investigated monetization tools using data visualizations to find the most popular ones

PROJECTS

iPlan startup | React-Native, Flask, MongoDB, Javascript, Python | June 2022 – Ongoing

- Developed an App that uses Fuzzy Logic AI and ML to improve students' well-being by planning their study times automatically, tracking their sleep and physical activities
- The app will be used by the International School of Geneva starting in October and will be available on Expo

Drug Age Project | Python | September – December 2020

- Used a decision tree classifier to see which of socioeconomic status or ethnicity is better predicted by the age at which an individual started using drugs

