

# MEHDI BOUASSAMI

[mbouassa@ucsd.edu](mailto:mbouassa@ucsd.edu) | [www.mehdi-bouassami.com](http://www.mehdi-bouassami.com) | <https://github.com/mbouassa> |  
linkedin.com/in/mehdi-bouassami | Quadrilingual: French, English, Spanish, Moroccan

## EDUCATION

**University of California San Diego | GPA: 3.90 | Graduation year: 2023 | Provost Honors: 9**

B.S. Data Science, Minors in Mathematics and Entrepreneurship/Innovation

## RELEVANT COURSEWORK + SKILLS

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

### 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 be presenting 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 entrepreneurs - Raised 6.4M\$ ([Crunchbase](#))*

- Created and implemented the one-to-one monetization tool which led to monthly profits of **\$20,000**
- Worked with a team of computer scientists and designers on studying user behavior and adding the explore option on the company's website. We increased user retention from **5% to 12%**
- Worked in a team of four data scientists and analyzed/predicted user behavior using pandas, Scikit-learn and probabilistic machine learning

## PROJECTS

**CEO of [MyPlan 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 **200** students at the International School of Geneva starting in October

**[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