Othmane Sajid
Montreal (QC)
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Education

B. Sc. Computer Science & Mathematics (Data Science) | *University of Montreal*
> Expected graduation: December 2023

M. Sc. Urban Studies | *National Institute of Scientific Research (INRS)*
> 2019-2022

B.A. Sociology | *UQAM*
> 2016-2019

Technical skills

Languages: Python, Java, SQL, Bash, R, Javascript/HTML/CSS, Solidity
Skills: Data Science/ML/AI, Data Engineering, OOP, SDLC, Web Development
Main tools: Git, Linux, Jira, AWS, Docker, MySQL, PostgreSQL, Pandas, PyTorch, Rest API, React, Web3

Work Experience

Technology Analyst Intern   *July to September 2023*
Morgan Stanley
- Developed an **OpenAI-powered Chrome Extension to significantly boost employee productivity** during a firmwide Generative AI hackathon where this **solution ranked in the top 20 among 400 participants.**
- Engineered from scratch **a new system leveraging LLMs for Entitlements Discovery and Recommendation** to improve the process of employee onboarding and entitlements revocation by IAM team. Built a **Web Application using a Vector Database (FAISS) and RESTful API (FastAPI) for the backend and gradio UI for the frontend**.

Data Analyst   *October 2017 to July 2023*
Department of Immigration
- Presented data insights to key stakeholders, contributing to strategic decisions to improve services.
- Generated reports and dashboards using **Excel, PowerBI** and **Python.**

Research assistant in Spatial Data Science   *June to September 2019*
National Institute of Scientific Research (INRS)

Projects

Deep Learning models to classify animal photos from the *AWA2* dataset
> https://github.com/Othmane-Sajid/animal-detection-Vision-Transformer
- Built ML Pipelines for a **Vision Transformer model (ViT)** and various **CNNs (Alexnet, Resnet, EfficientNet)** for this classification task.

Algorithmic trading bot for cryptocurrencies
- Built from scratch a **real-time automated crypto trading bot**, which continuously analyzes market trends and executes Long/Short transactions on 100+ **crypto Futures markets** through the **Binance API.**
- Implemented the bot using **Python** and deployed it on an **AWS EC2 Linux instance.**

Smart Contract on the Ethereum Blockchain (Web3)
> https://github.com/Othmane-Sajid/smart-contract
- Deployed a game-based **Decentralized Application (*Dapp*)** on the Ethereum Blockchain using **JavaScript and libraries for Web3, Solidity, Infura, Truffle Suite and OpenZeppelin.**
- Built a **Web frontend (HTML/CSS/JS)** integrated with the smart contract, through which users can safely connect their **MetaMask** wallet to the *Dapp* : https://othmane-sajid.github.io/smart-contract

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Awards

- Winner of the Department of Computer Science's Excellence Scholarship (University of Montreal, 2023)
- Canada Graduate Scholarship – Master's (SSHRC, 2020)
- Academic Excellence Scholarship (INRS, 2019)
- Dean's List