

Othmane Sajid
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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. Sc. Sociology | *UQAM*

2016-2019

Technical skills

Languages: Python, Java, SQL, Bash, R, Javascript/HTML/CSS, Matlab, Solidity

Frameworks & libraries: Pandas, Numpy, PySpark, Scikit-Learn, Keras, TensorFlow, Pytorch, Matplotlib, Rest APIs

Tools & skills: Git, Linux, AWS, GCP, Docker, PostgreSQL, pgAdmin, Spark, Web3

Projects

Machine Learning models to classify low-quality animal photos taken by Camera Traps (in progress)

- Currently building ML Pipelines with (1) a **Vision Transformer (ViT) model** and (2) a **Convolutional Neural Network (CNN)** for this task as part of an advanced ML course (IFT6759).

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 **Scikit-Learn** and deployed it on an **AWS EC2 Linux instance**.

Gym management software

<https://github.com/Othmane-Sajid/Software-Engineering-Project-IFT2255>

- Implemented a standalone **Object-Oriented app in Java** for managing customer memberships, staffing and activities.
- Applied **Agile Scrum methodology and workflows of a Software Development Life Cycle (SDLC)** (this group project was completed as part of a software engineering course, IFT2255).

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>

Work Experience

Department of Immigration

Since October 2017

Office of Research, Planning and Business Intelligence

- Data Analyst

National Institute of Scientific Research (INRS)

June to September 2019

- Research assistant in Spatial Data Science

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