

SUMMARY

Machine Learning Developer with hands-on experience in Python and data analysis. Skilled at building and improving models to solve real-world problems.

EDUCATION

**Software Engineering:** 1337 Coding School

2021 - 2024

- Learned advanced problem-solving through peer-based challenges and collaboration.

**Systems and Computer Networks:** BTS Al Khawarizmi

2017 - 2019

- Advanced training in Linux, network design, and CCNA 200-301 fundamentals.

EXPERIENCE

**AI Intern,** Sofrecom Morocco

Feb 2024 - Aug 2024

- Explored AI model training and data optimization workflows.
- Used XGBoost for tag prediction in the Tagma project.
- I tested more ML algorithms and neural networks for better accuracy and find more hidden patterns.

PROJECTS

**Tagma: Automated Tag Prediction System**

(XGBoost, Data Preprocessing, Machine Learning)

- Built a model to predict project tags and streamline classification.
- Improved data quality for higher accuracy.

**MLP-from-scratch: Building a Multi-Layer Perceptron from Scratch**

(Neural Networks, NumPy, Python)

- Implemented a neural network for classification tasks.
- Tuned parameters for better performance and efficiency.

**Tweets-NLP: NLP and Sentiment Analysis**

(Decision-Tree, Naive-Bayes, NLTK, TFIDF, Python)

- Prepared tweet data to classify sentiment and measure similarity.
- Employed multiple ML algorithms for comprehensive analysis.

**CHURN-Bank-Customers: Data Processing and Model Training**

(Scikit-Learn, Keras, TensorFlow, ML)

- Built a data pipeline for banking data preprocessing and feature selection.
- Trained and evaluated multiple ML models, including Naive Bayes, Random Forest, and MLP.
- Developed a custom neural network and assessed performance using AUC and accuracy.

Listed projects and more available at: [github.com/jchakir](#)

TECHNICAL SKILLS

**Programming:** Python, C/C++, TypeScript.

**Machine Learning:** Keras, Scikit-Learn, XGBoost, Neural Networks, NumPy, Pandas, NLTK.

**Tools & Technologies:** Git, Docker, Bash scripting.

**Skills:** Data Preprocessing, Model Optimization, Algorithm Development, Problem Solving.

LANGUAGES

Arabic (Native)

English (Upper Intermediate)

French (Intermediate)