HAMZA **ALAOUI MHAMDI**



PROFILE

Second-year **Data Engineering** student, passionate about artificial intelligence, big data, and distributed systems. Autonomous and motivated, I am seeking an internship to contribute to innovative projects in AI, NLP, or data engineering, while developing my skills in a stimulating environment.

CONTACT

- ≥ alaoui.hamza2002@gmail.com
- . +212 670 588 416
- in @hamza-alaoui-mhamdi
- (7) @hamza-rx12
- alaouihamza.vercel.app

LANGUAGES

- Arabic (native)
- French (fluent)
- English (fluent)

INTERESTS

- Technologies: Big Data, Artificial Intelligence, Programming
- Hobbies: Linux Ricing, Reading, Music, Travel
- Culture: Anime and Manga

EXTRACURRICULAR ACTIVITIES

• Clubs: DATAI, 01 Club, ASIANHUB

PROJECTS

BIG DATA NETWORK BILLING PIPELINE

mes of customer

Network billing data pipeline processing large volumes of customer usage records (SMS, voice calls, data), batch and real-time processing, pricing, invoice generation, and dashboard visualization.

♦ **Tools:** Java, Spark, Kafka, Flink, Docker Compose, MongoDB, MinIO, Streamlit.

Collaborative data annotation platform for efficient dataset labeling intended for machine learning workflows.

- ♦ Backend: Spring Boot, MariaDB, Redis
- ♦ Frontend: React, TailwindCSS
- Security: JWT Authentication

LINUX COMMAND COMPLETION

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Automatic Linux command completion system based on neural networks, analyzing history to predict and suggest commands in real-time.

- ♦ **Models:** LSTM, GRU, RNN with TensorFlow and Keras
- ♦ **Integration:** Bash scripts for smooth shell interaction
- ♦ **Evaluation:** Top-K accuracy, Sparse Categorical Cross-Entropy loss

TYPO TAMER

Typo Tamer is a typo corrector developed from scratch using the minimum edit distance algorithm and Jellyfish for phonetic comparison, offering automatic text correction.

EDUCATION

DATA ENGINEERING SPECIALIZATION.

2023-present

National School of Applied Sciences of Al Hoceima (ENSAH).

PREPARATORY CYCLE FOR ENGINEERING STUDIES.

2021-2023

National School of Applied Sciences of Al Hoceima (ENSAH)

BACCALAUREATE IN MATHEMATICAL SCIENCES B.

2020-2021

♦ Technical High School of Errachidia.

SKILLS

- Languages: C, Java, Python, PL/SQL, Shell (Bash), JavaS-cript/TypeScript.
- Artificial Intelligence: Machine/Deep learning and NLP using TensorFlow, Keras, Scikit-learn, Hugging Face, LangChain.
- Data Analysis: Pandas, NumPy, Matplotlib, Seaborn, NLTK, SpaCy.
- Big Data: Hadoop, Spark, Kafka, Flink.
- **Web Development**: Flask, FastAPI, Spring Boot, React, Tailwind CSS
- Databases: Oracle Database, MySQL, PostgreSQL, MongoDB.
- DevOps: Docker, Docker Compose, Linux.