

BILAL EL HAMMOUCHI

Data Science and AI Graduate



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SUMMARY

Data Science and AI graduate with expertise in machine learning, data analysis, and predictive modeling. Proficient in Python, TensorFlow, and pandas, with experience in building end-to-end solutions for real-life data problems. Notable achievements include winning an AI Hackathon, serving as the secretary of Club I2A, a 6 month internship and contributing to AtlasIA. I possess advanced proficiency in English, French, and German, along with strong organizational and communication skills.

EXPERIENCE & ACCOMPLISHMENTS

ML Intern:	A 6 month internship as a Machine Learning Intern at Maticious creating a fully autonomous web agent using large multimodal models and automation tools.
Freelancer:	Worked on dozens of projects, developing desktop, mobile, and web applications for clients worldwide, some of which leverage AI to solve real-life problems.
Club I2A:	A board member and one of the founders of the club I2A representing the role of secretary.
Hackathon:	First place winner of an AI Hackathon organized by the Multidisciplinary Faculty of Nador by building a full scale chatbot that leverages an AI model to predict house prices.
AtlasIA:	A core member and a web developer of the open source initiative known as AtlasIA.
Certificates:	Machine Learning by Stanford University, Python for Everybody by University of Michigan, IELTS Academic 8-Band by the British Council, Zertifikat B1 by the Goethe-Institut

PROJECTS

Cross Platform App	Project Legolingo private repository <ul style="list-style-type: none">• Collaborated in a team of 3 on the development of a project powered by OpenAI's GPT-3.5 Turbo API.• Played a key role in the integration of AI technologies to create a language-learning experience.• Actively contributed to the success of the project through effective collaboration and teamwork.• Designed and implemented features aimed at enhancing users' language skills, including topic-based reading, vocabulary testing, auditory comprehension exercises, and writing skill assessments.
Mobile App	Intrusion Detection System https://github.com/BilalElHammouchi/intrusion_detection_system <ul style="list-style-type: none">• Deployed an Intrusion Detection System, enhancing network security against attacks.• Developed a real-time monitoring Flutter mobile app for network intrusion detection.• Managed Flask backend integration with a TensorFlow Lite model for efficient data processing.• Applied CRISP methodology for structured data mining in network security.
Web App	AtlasIA https://atlasia.ma <ul style="list-style-type: none">• Developed the backend of the site using Firebase technology for the AtlasIA team.• Streamlined backend processes to import to Hugging Face, supporting open-source collaboration.• Created a responsive frontend design compatible with both mobile devices and PCs.• Enhanced the website's functionality and accessibility, contributing to the success of the AtlasIA project.

EDUCATION

2022 - 2024	Master of Science Data Science and Intelligent Systems (4.0 GPA)	Mohammed First University
2019 - 2022	Bachelor of Science Mathematics and Computer Science (3.7 GPA)	Mohammed First University

SKILLS

Languages:	Python, Dart, Java, SQL, PHP, C, JavaScript.
Frameworks:	flutter, firebase, spring, tkinter, react, next.js, selenium
Data Science:	numpy, pandas, scikit-learn, tensorflow, keras, pytorch, hadoop, docker, plotly, matplotlib
Database Systems:	MySQL, SQLite, MongoDB, Firestore, Oracle, Access

LANGUAGES

English - Fluent, **French** - Advanced, **German** Conversational, **Arabic** Bilingual, **Tamazight** Native