

Mohamed Ed-Deryouch

Full Stack Developer — AI Engineer — Machine Learning Engineer

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Profile

Versatile Full Stack Developer and AI Engineer with 2 years of experience designing and deploying scalable web applications and intelligent systems. Skilled in building robust frontends with React.js and dynamic backends using FastAPI, Flask, and Django, complemented by strong expertise in machine learning and NLP. Experienced in creating data-driven, production-ready applications with cloud deployment and real-time data processing. Passionate about bridging AI and software engineering to deliver seamless user experiences and data insights.

Education

Higher Normal School of Technical Education (ENSET) <i>Engineering Degree - Software Engineering and Distributed Computer Systems</i>	Mohammedia, Morocco 2025 – Present
Sultan Moulay Slimane University - School of Technology <i>Bachelor's Degree - Infrastructure, Processing and Analysis of Big Data</i>	Fquih Ben Salah, Morocco 2024 – 2025
Sultan Moulay Slimane University - School of Technology <i>Associate Degree - Business Intelligence and Statistics</i>	Fquih Ben Salah, Morocco 2022 – 2024

Full Stack Development Experience

Full Stack Developer & AI Engineer (Internship) <i>High Commission for Planning Morocco</i>	April 2024 – July 2024 Beni Mellal, Morocco
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- Designed and implemented a scalable full-stack Q&A web application with React.js frontend and FastAPI backend, improving user query efficiency by 60%
- Built RESTful APIs to integrate advanced NLP services powered by large language models for semantic document search
- Developed and optimized PostgreSQL database schemas supporting fast data retrieval and efficient NLP preprocessing pipelines
- Collaborated closely with cross-functional teams to deploy, monitor, and maintain production-ready cloud-hosted applications

Full Stack Developer (Internship) <i>Fquih Ben Salah Higher School of Technology</i>	July 2023 – November 2023 Fquih Ben Salah, Morocco
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- Created a comprehensive attendance management system using Django REST framework, React.js, and PostgreSQL, automating 95% of manual processes
- Developed real-time dashboard features for monitoring student attendance, integrating dynamic report generation and analytics
- Implemented frontend state management and authentication using React and Redux to enhance user experience and security
- Collaborated on data visualization projects using Power BI to support administrative decision-making, boosting operational efficiency by 30%

Full Stack Projects

Real-Time Fake News Detection Web Application

April 2025

- Developed a full-stack web application featuring a React.js frontend and Python backend for real-time NLP-based fake news detection
- Implemented streaming data pipelines with Apache Kafka and PySpark to enable scalable model inference and live updates
- Designed and deployed a user-friendly web interface with monitoring and alert systems for proactive threat management

Sentiment Analysis Platform (Final Year Project)

June 2024

- Built a full-stack sentiment analysis platform using React for frontend and Flask API backend, processing over 10,000 feedback entries
- Integrated machine learning models fine-tuned on BERT and LSTM for multi-class sentiment classification with 90% accuracy
- Enabled real-time feedback collection and dynamic visualization to provide actionable insights and improve user satisfaction

Technical Skills

Programming & Frameworks: JavaScript (React.js, Express.js, Node.js, HTML, CSS, TailwindCSS), Python (FastAPI, Flask, Django), PHP, SQL, LangChain, MERN Stack

Web Development: Responsive UI Design, RESTful APIs, Single Page Applications, State Management (Redux), Authentication, Cloud Deployment (Heroku, AWS)

Machine Learning & AI: ML Algorithms, Deep Learning, NLP (BERT, XLM-RoBERTa), LLMs, Model Training and Deployment

DevOps & Infrastructure: Docker, Apache Airflow, Apache Kafka, CI/CD, Git, Apache Spark, PySpark, Vector Databases (Qdrant, Pinecone)

Certifications & Formations

Advanced React
Meta

December 2024

Machine Learning Specialization
DeepLearning.AI & Stanford University

April 2025

JavaScript (Intermediate)
HackerRank

December 2023