Imane Belhaj

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EDUCATION

Moroccan school of engineering sciences (EMSI)   Anticipated Grad Date **:** June 2025
- **Engineering Degree** in Computer Engineering
- Specialization: Management of Information Systems and Applied Computer Science (MIAGE)
- Preparatory Classes 2021-2022
- Relevant Coursework: Software Engineering; Quality Management; Project Management; Machine Learning; JEE Spring boot

Lycée Tarik Ibnou Ziad, Casablanca, Maroc   Graduation Date : 2020
- Baccalaureate in Physical Sciences (French Option)
- Graduated with High Honors

EXPERIENCE

Data Science Intern | AttijariWafa Bank | Casablanca, Morocco   July -August 2024
- **Description**: Developed an AI model for detecting insults in chatbots using NLP techniques.
- **Role**: Achieved 99.7% accuracy for French and 94.2% accuracy for English in insult detection, significantly improving model performance through data preprocessing, feature engineering, and model training. Reduced false positives and improved overall detection robustness.
- **Technologies**: Python, Flask, NLP, Machine Learning, Scikit-learn, TensorFlow, RESTful APIs. for real time interaction

Full-Stack Developer Intern | IT Solutions Services global | Casablanca, Morocco   August 2023
- **Description**: Engineered a user-centric web application for a financial institution, streamlining online transactions and reducing customer support inquiries by 25%, thereby enhancing operational efficiency and user experience across the platform.
- **Role**: Utilized Django and Python for back-end development, SQLite for database management, and Bootstrap for responsive front-end design. **Technologies**: Django, Python, SQLite, Bootstrap, HTML, CSS, JavaScript,Git

PROJECTS

Stock Management System
- **Description**: Developed a stock management application with product management, low stock notifications, and reporting.
- **Role**: Enhanced project management skills by mastering Jira software and facilitating workshops for 7 team members; improved sprint planning sessions, which increased task completion rates and optimized workflow processes across multiple projects.
- **Technologies**: Spring Boot, Java, MySQL, HTML, CSS, JavaScript, React, Docker, Jenkins, Jira, Git

Task Management System | Tasky
- **Description**: A task management tool for organizing and boosting productivity
- **Features**: Task and subtask management, user authentication, profile updates, responsive design.
- **Tech Stack**: Spring Boot, Hibernate, HTML, CSS (Bootstrap), JavaScript, MySQL, Maven,Git

AI-Powered Employee & Job Matching System
- **Description**:Developed an AI-based platform integrating resume screening, employee attrition prediction, and job matching.
- **Role**: Led the development of the resume screening model using NLP techniques for text extraction and classification. Built and optimized an attrition prediction model based on employee data (job satisfaction, performance, etc.). Integrated both models into a job matching service, providing HR with candidate matches and retention insights. Designed and deployed the platform using Django, ensuring seamless functionality for HR personnel.
- **Technologies** Python, BeautifulSoup, TensorFlow, Scikit-learn, SpaCy, NLTK, Word2Vec, Django, MySQL,Power BI.

SKILLS AND EXPERTISE

- **Back-End Development:** C#, C++, HTML, CSS, JavaScript, **Java, Spring Boot, Angula**r, Python, Django, Flask API integration
- **Database Management:** SQL Server, SQLite, MySQL
- **Mobile Development:** Android, Java, Firebase, Google Cloud Console
- **Other Skills:** Git, Github, UML, Azure Devops, **Jira, Scrum and Agile, JEE, Software Design and Architecture(POO, Design Patterns, System Architecture..)**
- **Data Science:** Data Analysis, Machine Learning, Deep Learning, NLP, Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib

CERTIFICATES

Building Scalable Java Microservices with Spring Boot and Spring Cloud-Google Cloud | Machine Learning with Python-IBM | Microsoft Power BI Data Analyst Professional Certificate

LANGUAGES : English: Fluent | French: Fluent | Arabic: Native Speaker