IYAD KHALIL

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Professional Summary

AI/ML Engineer with hands-on experience in machine learning, web development, and automation. Proficient in LLMs and data science workflows, I specialize in building end-to-end AI solutions that deliver real-world impact. Currently focused on predictive modeling, API deployment, and scalable cloud solutions.

Education

Université Côte d'Azur - France   **October 2024 - Present**
Master 2 in Artificial Intelligence

École Marocaine des Sciences de l'Ingénieur - Morocco   **October 2020 - Present**
Engineering Cycle in Computer Science and Networks

Projects

Breast Cancer Prediction Using AI   **December 2024 - February 2025**
Python, Flask, Keras, TensorFlow

- Built a **CNN** model to classify mammogram images into Benign, Malignant, or Normal
- Fine-tuned 4.7M+ parameters, achieving **67.69%** validation accuracy
- Integrated into a **Flask** web app with image upload and prediction output
- Github link : **github.com/iyad-khalil/Breast_Cancer_Prediction**

Experience

Master's Internship Project | AI - ML Engineer at BLINK PHARMA   **Casablanca, Morocco || Remote**
Python, FastAPI, Docker, Azure, XGBoost, LSTM, Postman   **March 2025 - Present**

Pharmacy Sales Forecasting & Fraud Detection
- Built a hybrid **ML model** using **LSTM** + **XGBoost** to forecast daily pharmacy revenue
- Achieved **93.21% accuracy**, enhancing financial planning and stock management
- Deployed model as a **REST API** using **FastAPI** and **Docker**
- Hosted on **Microsoft Azure** with **NGINX** as reverse proxy and **HTTPS** support
- Enabled external testing and integration via Postman, ensuring reliable and seamless access to predictions

Summer Internship | Automation Engineer at TERSEA   **Nice, France || Sur site**
Cypress, Java Script   **July 2024 - September 2024**

Automate end-to-end tests using **Cypress**
- Implemented automation **end-to-end tests** for a web application using **Cypress**.
- Covered most of the platform's features with reusable and maintainable test scripts.
- Collaborated with developers to detect bugs and enhance the overall quality of the product.

Start Internship | Full Stack developper at Big4Com Web   **Marrakech, Morocco || Sur site**
PHP, Symfony, PostgreSQL, Selenium   **July 2023 - August 2023**

Pharmacy Stock & Sales Management System
- Built a web application using **PHP** and **Symfony** and **PostgreSql** to manage stock and sales for a pharmacy.
- Implemented core features: product inventory, stock updates, sales tracking.
- Designed the database structure and developed CRUD operations for key entities.
- Ensured clean UI and smooth user experience through testing using **Selenium**.

Programming Languages

Programming:
Python, Java, JavaScript, Dart, HTML, CSS, PHP, SQL (MySQL, PostgreSQL)
Data Engineering & DevOps:
FastAPI, Docker, Microsoft Azure, NGINX, Custom ETL Pipelines, Power BI
Frameworks & Libraries:
TensorFlow, Scikit-learn, Keras, Pandas, NumPy, Matplotlib, PIL, Flask, Node.js, React, Next.js, Angular
Testing & QA:
Cypress, Selenium, SonarQube, JMeter
Project Management:
Scrum (Agile), Trello, Jira
Tools:
Git, VS Code, PyCharm, IntelliJ, Postman

Languages

English – B2
French – C2
Arabic   – C2