DIOUANE Hicham

Machine Learning Engineering Student

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Education

Computer Engineering – Big Data and Cloud Computing   **2023 - 2026**
ENSET Mohammedia - Morocco

Bachelor's in Computer Science & Mathematics   **2020 - 2023**
Ibn Zohr University - Morocco

Projets

Air Quality Index (AQI) Prediction System   *Source Code*

- Developed a **serverless MLOps pipeline** to predict AQI for the next 3 days using weather and pollution data.
- Built **feature pipelines** to fetch, process, and store data in **Hopsworks Feature Store**.
- Trained and deployed an **XGBoostRegressor** model using **GitHub Actions** for automation.
- Created a **Streamlit web app** to visualize predictions in real-time.
  Tech Stack: Python, XGBoost, Hopsworks, Streamlit, GitHub Actions.

Diabetes Detection   *Source Code*

- Designed a **machine learning model** to predict diabetes using patient health data.
- Performed **data preprocessing** and **feature engineering** to improve model accuracy.
- Built an interactive **Streamlit dashboard** for real-time predictions and visualizations.
  Tech Stack: Python, Scikit-Learn, Numpy, Pandas, Matplotlib, Streamlit.

Facial Recognition System for Attendance Tracking   *Source Code*

- Developed a **JavaFX-based desktop application** for real-time facial recognition.
- Integrated **OpenCV** for face detection and **SQLite** for attendance record storage.
- Built a **Flask API** to handle image processing and facial recognition tasks.
  Tech Stack: JavaFX, SQLite, OpenCV, Flask.

Experience

Internship in Machine Learning | Noetem (July 2024)

English Premier League Match Prediction System   *Source Code*

- Created a **machine learning model** to predict match outcomes using historical EPL data.
- Used **BigQuery** for efficient data storage and querying of large datasets
- Built a **Power BI dashboard** for data visualization and insights.
- Deployed the model using **Flask** and integrated it with a **Next.js** frontend.
  Tech Stack: Python, Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn, Power BI, NextJS, Flask, GCP

Technical Skills

Languages: C++, Java, Python, JavaScript
Skills: Machine Learning, Web/Mobile/Desktop Development, Active Listening
Frameworks & Libraries: Scikit-Learn, Flask, Streamlit , NextJs, React Native
Clouds, Databases & BI Tools: OCI, GCP, Docker, MongoDB, MySQL, SQLite, Power BI
Developer Tools: VS Code, Jupyter, IntelliJ IDEA, Git, GitHub, Postman

Extracurricular Activities

Active Member in Google Developer Group Club (GDG)

Participate in hackathons, tech meetups, and learning sessions focused on emerging technologies.

Language

Arabic: Native   **English:** Fluent   **French:** Fluent