Wassef ARAGOU

Engineering Student | Passionate about AI & Data Science & Financial Markets

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EDUCATION

Mohammadia School of Engineers 2023 - Present
- Engineering Degree in Modeling and Scientific Computing (MIS) Rabat

PROFESSIONAL EXPERIENCE (INTERNSHIPS)

HIGH COMMISSION FOR PLANNING - Agdal, Rabat JUNE – AUGUST 2025 · 3 MONTHS
- Application of unsupervised learning models to analyze national employment surveys, and development of a chatbot providing responses derived from these analyses.
  Technologies: Python, PCA, Autoencoders, KNN, K-Means, DBSCAN, HDBSCAN, GMM, Hugging Face, LLM, Streamlit

OCP GROUP - Jorf Lasfar, El Jadida AUGUST – SEPTEMBER 2024 · 2 MONTHS
- Design of a neural network model to predict and control SO_2 emissions during sulfuric acid production. Development of a Streamlit interface for real-time visualization.
  Technologies: Python, TensorFlow, Scikit-learn, Streamlit, Seaborn, Pandas

HIGH COMMISSION FOR PLANNING - Agdal, Rabat JUNE – JULY 2024 · 2 MONTHS
- Prediction of youth employment status and analysis of youth unemployment determinants using logistic regression, random forests, and neural networks.
  Technologies: Python, Scikit-learn, Seaborn, Pandas

ACADEMIC PROJECTS

Fantasy Premier League (FPL) Assistant with RAG
- Development of a Retrieval-Augmented Generation (RAG) system based on large language models (LLMs), integrating real-time FPL player statistics with GPT models to provide personalized recommendations.
  Technologies: Python, LangChain, RAG, LLM, OpenAI API, Streamlit

AI Solution for Image Compression and Completion
- Development of a solution based on convolutional autoencoders for efficient image compression to `.npz` format (a compressed archive for storing multiple NumPy arrays) and their reconstruction, along with an interface to implement these functionalities.
  Technologies: Python, Flask, CNN, Autoencoders, TensorFlow, TypeScript, React.js, Next.js

Cancer Prediction Application
- Creation of a machine learning-based breast cancer prediction application, using Random Forest (regression & classification) and Elastic Net to provide reliable risk analysis, staging, and treatment cost forecasting.
  Technologies: Python, Scikit-learn, Flask, HTML, CSS, JavaScript, Docker, Google Cloud

CERTIFICATES

- Stanford Machine Learning Specialization
- Deep Learning Specialization - DeepLearning.AI
- Financial Markets - Yale University
- Data Analysis for Lean Six Sigma

SKILLS

Tools and Programming: n8n • Git • APIs • Power BI • IBM SPSS • Excel • R • SQL

Finance: Stocks • Bonds • Index Funds (ETFs) • Derivatives (Options, Futures, Forwards)

Languages: English: Professional Proficiency - French: Professional Proficiency - Arabic: Native Language