

RAMY LAZGHAB

AI and Data Science Junior

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PROFILE

Master's student in Big Data & Artificial Intelligence at Université Paris Dauphine, skilled in data science, machine learning, and NLP. Built AI-powered solutions for research, healthcare, and sports analytics. Passionate about AI for social impact and eager to deliver innovative, impactful projects.

TECHNICAL SKILLS

Languages — Python, Java, C, R, JavaScript

Data Science — Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Word2Vec, NLP

Tools & DBs — Django REST, React, Flutter, Docker, Git, Jupyter, PostgreSQL, SQL

LANGUAGES

English
IELTS

French

EDUCATION

Master's in Big Data & Artificial Intelligence, Université Paris Dauphine 09/2024 – Present

Bachelor's Degree in Computer Engineering, Faculty of Sciences of Tunis 09/2021 – 06/2024

PROJECT EXPERIENCE

RAGenius

AI-Powered Research & Data Assistant

Built an LLM-powered assistant for CSV/PDF analysis using RAG, LangChain, FAISS, Ollama, and Streamlit.

SportiQ

AI-Powered Sports Pose Analysis & Coaching Assistant

Analyzed tennis posture via OpenCV & MediaPipe, generating NLP-based feedback and visual performance trends.

House Price Prediction – Kaggle Competition

- Built regression models to predict house prices using advanced feature engineering.
- Applied ensemble learning (XGBoost, CATBoost, Lightgbm), cross-validation, and hyperparameter tuning.
- Tools: Python, scikit-learn, Pandas, XGBoost

Diabetes Prediction System

- Developed a classification model to detect diabetes based on health metrics.
- Compared Logistic Regression, Decision Trees, and SVM with evaluation metrics.
- Tools: Python, scikit-learn, Matplotlib

MoodSync – AI Platform for Psychologists

Winner – Hack for Good Hackathon

- Developed a real-time therapeutic assistant platform to support psychologists during patient sessions.
- Integrated **speech emotion recognition** to detect patient mood and assist in diagnosis.
- Implemented a **smart note-taking feature** that generates session summaries every 30 seconds.
- Synced with IoT devices to **dynamically change LED room lighting** based on the patient's emotions, enhancing relaxation.
- Deployed the application using **Streamlit** for a fast, interactive, and intuitive frontend interface.
- **Tech Stack:** Python, Streamlit, Speech-to-Text, Sentiment Analysis (NLP), IoT (LED Control), REST API, **multisensory AI integration**.

Career Satisfaction & Job Alignment Analysis

- Applied PCA on survey data to analyze the relationship between academic background and career satisfaction.
- Visualized socio-economic correlations and factors impacting employment trends.

Startup Investment Recommendation Tool

- Scraped AngelList data & used Word2Vec for startup growth/revenue-based recommendations.
- Tools: Python, Selenium, Pandas, Word2Vec

PROFESSIONAL EXPERIENCE

Software Developer Intern, Infinity Management

02/2024 – 06/2024

- Developed a blended-learning platform with dynamic course unlocking and NLP-based sentiment analysis.
- Integrated enterprise evaluation and learner tracking systems using React, Django REST, and Docker.

Web Developer Intern, Centre National d'Informatique (CNI)

06/2023 – 06/2023

Built a web app for client registration and admin data export using PHP, HTML, and CSS.

CERTIFICATIONS & COMPETITIONS

Winner - Hack for Good (AI mental health platform MoodSync)

IEEEExtreme 15.0 & 16.0 Global Coding Competitor

SoloLearn Python Core Certificate

EXTRACURRICULAR & LEADERSHIP

Member – ITLAB, IEEE, and AIESEC, contributing to AI workshops, hackathons and global leadership programs.

09/2021 – 06/2025