# RAMY LAZGHAB

## AI & 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**                                                          **French**
  IELTS

## 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)

**IEEEXtreme** 15.0 & 16.0 Global Coding Competitor

**SoloLearn** Python Core Certificate

## EXTRACURRICULAR & LEADERSHIP

**Member** – ITLAB, IEEE, and AIESEC, contributing to AI workshops, hackathons      09/2021 – 06/2025
and global leadership programs.