

# Mejdi Haddad

Computer Engineering Graduate — Open to AI/Data Roles — Skilled in FastAPI & React.js

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## Experience

### Innomatics Research Labs — Generative AI Internship

Oct 2024 – Dec 2024

- Built production-grade GenAI applications using OpenAI, Google Gemini, LangChain, and Streamlit.
- Developed an AI Code Reviewer: detects bugs, suggests corrections, and improves code using LLMs.
- Created an AI Assistant for Visually Impaired: OCR, scene description, and TTS integrated in a Streamlit app.
- Performed deep EDA on the Aspiring Minds Employability dataset: analyzed salary distributions by gender and specialization using seaborn, matplotlib.
- Conducted full-stack data analysis on Electric Vehicle dataset: built animated charts, choropleth maps, and pricing-insight visuals using Plotly.

### VERMEG — End Of Study Internship

Feb 2024 – Jul 2024

- Built a real-time intelligent chatbot with FastAPI, MongoDB, and Ollama.
- Created a React.js UI with WebSocket integration for live responses.
- Used LangChain for prompt memory, Hugging Face for embeddings.
- Implemented FaissDB for document search, encrypted user data.
- Measured response similarity with sklearn (cosine similarity).

### Proxym — Web Development Internship

Jul 2023 – Aug 2023

- Developed the backend of a nutrition coaching platform using Spring Boot.
- Implemented secure authentication, role-based access, and session management for coaches and patients.
- Designed and managed a Dockerized MySQL database for storing and tracking patient metrics.

### Innomatics Research Labs — Data Science Internship

Feb 2023 – May 2023

- Created a Flask-based URL shortener with responsive frontend.
- Conducted EDA on "Aspiring Minds Employability Outcomes" dataset.
- Built a Streamlit ML app for penguin species classification.
- Developed rice disease detection with CNNs + OpenCV.
- Used MLflow to manage training experiments and model versions.

### Bayoudh — Frontend Internship

Jul 2022 – Aug 2022

- Developed a dynamic and responsive inventory management dashboard using React.js.
- Created interactive components for stock tracking, user authentication, and reporting.
- Ensured seamless user experience with reusable components and state management.

## Education

ESPRIM – Computer Engineering

2021 – 2024

ESPRIM – Preparatory Cycle

2019 – 2021

Bachelor in Computer Science

2015 – 2016

## Skills

### Programming Languages

Python, JavaScript, HTML, CSS

### Web Development

FastAPI, Flask, React.js, Streamlit, TailwindCSS

### Data Science Tooling

TensorFlow, Keras, scikit-learn, pandas, OpenCV, Hugging Face, LangChain

### Data Analysis

Power BI, Matplotlib, Pandas

### Databases

MySQL, MongoDB, FaissDB

### ML & NLP

LangChain, Hugging Face, sklearn, Ollama

### Dev Tools

Git, Docker, WebSocket, MLflow

### Project Management

Scrum methodology, collaborative Git workflows

## Projects

- AI-Powered Visual Assistant:** OCR & TTS system for visually impaired (*Python, Streamlit*)
- AI Code Reviewer:** Evaluates code quality using ML (*Python, API*)
- Salary EDA:** Insights from employment data (*Pandas, Seaborn*)
- EV Data Analysis:** Visual insights on EVs (*Plotly, Pandas*)
- Flipkart Analysis:** Smartphone listing analyzer (*Streamlit, Matplotlib*)
- Tweet Sentiment Analyzer:** NLP for tweet emotions (*Naïve Bayes, WordCloud*)
- Penguin Classification:** Predict species (*Scikit-learn*)
- Open Pub Locator:** Location-based pub finder (*Streamlit, Pandas*)

## Certifications

- LLM Agents MOOC** — Berkeley-Haas Center for Responsible Business (2024)
- Data Science with GenAI Internship Program** — Innomatics Research Labs (2024)
- Build Chat Applications with OpenAI and LangChain** — 365 Data Science (2024)
- Advanced Data Analysis** — Innomatics Research Labs (2024)
- Deep Learning with TensorFlow 2** — 365 Data Science (2023)
- Power BI** — 365 Data Science (2023)