

Eya Guerdelly

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Experience

AI and Software Engineer Intern Focus Corporation *Tunis, Tunisia* **February 2025 - July 2025**

- Developed Agentic AI platform for task management automation
- Built Task Management Assistant with Gemini integration featuring voice/text support and automated Jira management

Technologies: Python, Langgraph, Langchain, Docling, FileSearch tool, RAG, OCR, Tesseract, LLMs, Fine Tuning, ML, NLP, MCP, Next.js, FastAPI, Supabase, CI/CD pipeline, Azure DevOps, Git

Researcher Engineer Intern Ensi Lab *Tunis, Tunisia* **February 2025 - July 2025**

- Adaptive Federated Learning with Agentic AI for Dynamic Data Streams

Software and Data Engineer Intern Focus Corporation *Tunis, Tunisia* **June 2024 - August 2024**

- Developed automated dashboard generation platform for SAP Support teams with Docker Compose deployment, creating performance dashboards and KPI monitoring tools to enhance transparency and operational efficiency.

Technologies: SAP ServiceNow, Angular, Spring Boot, Java, MySQL, Docker, Docker Compose

Software Engineer Intern ElyosDigital *Monastir, Tunisia* **June 2023 - August 2023**

- Developed a mobile movie application using Flutter and Dart with API integration for dynamic content delivery
- Built backend and managed databases for an online education platform using Laravel and phpMyAdmin

Technologies: Flutter, Dart, APIs, Laravel, phpMyAdmin

Technical Skills

- **AI & Machine Learning** Langgraph | CrewAI | Langchain | Neo4j | Machine Learning | NLP | ML | DL | LLMs | Whisper API
- **Programming Languages & Frameworks** Python | Java | TypeScript | Angular | Next.js | Spring Boot | FastAPI
- **Databases & Storage** MySQL | PostgreSQL | Supabase
- **Cloud & DevOps** AWS | Docker | Docker Compose | Jenkins | Kubernetes | Azure DevOps | CI/CD | Git
- **Data & Analytics** Big Data | Hadoop | Apache Spark | Apache NiFi | Web Scraping | BeautifulSoup4 | PowerBI | ETL
- **Languages** English (C1) | French (C1) | Spanish (A2)

Education

Research Master's in Data Science National School of Computer Science *Manouba, Tunisia* **September 2024 - May 2024**

AI & Software Engineering National School of Computer Science *Manouba, Tunisia* **September 2022 - May 2025**

National Diploma in Mathematics and Physics IPEIM *Monastir, Tunisia* **September 2020 - June 2022**

- Ranked 212/1831 nationally in preparatory engineering entrance examination

Projects

Data Chatbot for Automotive R&D **February 2025 - May 2025**

Developed intelligent automotive data chatbot for R&D teams to streamline vehicle performance analysis and engineering data queries

Created conversational AI interface with multi-modal capabilities for automated technical documentation parsing

Built sensor data interpretation and predictive maintenance insights system

Technologies: Python, Langgraph, Langchain, RAG, Vector Databases, LLMs, ML, NLP, Next.js, FastAPI, PostgreSQL

AccentAI - Intelligent Speech Analysis for Hiring **May 2025**

AI-powered accent detection tool for hiring teams that automatically analyzes candidate video recordings to classify English accents (American, British, Australian, etc.) with confidence scores and hiring recommendations

Technologies: OpenAI GPT-4o, Whisper API, Python, Advanced NLP, Real-time Audio Processing

AI-Powered Lead Qualification Agent **March 2025**

Developed AI-powered Lead Qualification Agent for CRM automation with automated prospect scoring, email parsing, and data enrichment capabilities

- Built intelligent system using machine learning algorithms to evaluate potential customers and prioritize high-quality leads, reducing manual sales team workload

Technologies: Python, Langgraph, Langchain, RAG, LLMs, ML, NLP, FastAPI, Angular, Neo4j, CRM Integration

Smart Parking Vision: Automated Vehicle Detection and Space Management Using YOLOv8 **January 2025**

Computer vision system using YOLOv8 for real-time vehicle detection, parking space monitoring, and traffic flow optimization

Social Media Sentiment Mining

January 2025

Data mining platform analyzing social media sentiment by country using NLP preprocessing, PCA dimensionality reduction, and K-means clustering to classify engagement patterns from likes and retweets

COVID-19 Data Analysis and Visualization

November 2024

Processed COVID-19 epidemiological data across continents with Hadoop and PowerBI visualization

Educational Content Recommendation System

February 2024 - May 2024

Recommendation system for children's educational content using Angular, Spring Boot, Python, ML, NLP and web scraping

HelmaCreations E-commerce Platform

January 2022 - April 2022

Developed e-commerce platform as a dev community member at ENSI Junior Enterprise using MERN stack

Technologies: MongoDB, Express.js, React, Node.js (MERN Stack)

Certifications

- NVIDIA: Generative AI Explained (2025)
- LinkedIn Learning: Agentic AI Fundamentals - Architectures, Frameworks, and Applications (2025)
- LinkedIn Learning: Build AI Agents and Chatbots with LangGraph (2025)
- DataCamp: Advanced Deep Learning with Keras, TensorFlow, and Image Modeling (2025)
- NVIDIA: Applications of AI for Predictive Maintenance (2024)
- OPUS LAB: MERN stack (2022)