

# ISSAM HAOUARI

## Software Engineer

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## PROFESSIONAL EXPERIENCE

### Artificial Intelligence Intern

#### Implementation of a Personality-Adaptive Chatbot

 February 2024 - August 2024  SOFRECOM

- Collected data using web scraping and performed data cleaning.
- Fine-tuned text generation models to tailor responses based on personality traits.
- Integrated models into the RASA framework (initial approach).
- Developed a Flask web application to incorporate the fine-tuned models.
- Implemented a chatbot capable of adapting its responses according to the user's personality.
- Keywords: NLP Flask RASA Web Scraping Generative AI

### Summer internship

#### Improving Customer Experience in Online Fashion with AI: Keyword Extraction and Intent Recognition

 July 2023 - September 2023  SATORIPOP

- Created a NER model to extract key information from client messages, integrated into a search engine.
- Fine-tuned multiple text classification models to recognize client intent in each message.
- Collected, preprocessed, and tokenized text data for training high-performance models.
- Evaluated and optimized models using appropriate performance metrics.
- Keywords: NLP TensorFlow PyTorch SpaCy LLM

## PROJECTS

### Personal Project

#### Implementation of a LinkedIn Clone Application

 2024

- Designed a LinkedIn-clone application using the MERN stack with JWT authentication and MongoDB.
- Integrated welcome emails with mailtrap and ensured data protection.
- Designed an interactive user interface (Tailwind CSS, DaisyUI) with profiles, image uploads, and connection request management.
- Implemented post creation, liking, commenting, and user suggestions for networking.
- Keywords: MongoDB ExpressJS ReactJS

### Personal Project

#### Development of a Retrieval-Augmented Generation Chatbot with Gemini API

 2024

- Built a RAG chatbot using the Gemini API to retrieve and generate responses based on embedding similarity.
- Employed a vector database for effective similarity search of embeddings.
- Developed a pipeline to format prompts for retrieval tasks and generate responses dynamically.
- Integrated the solution with a web interface using Flask for real-time interaction.
- Keywords: Gemini API Vector Database Flask RAG

### Design and Development Project

#### Environmental Accident Detection Web Application

 March 2023 - May 2023  ENSI- Manouba

- Designed and developed an application that allows citizens to report encountered accidents, automatically detect the location of the incident, and link it to the corresponding municipality responsible for that area.
- Keywords: Geolocation CSS HTML Springboot Angular

## EDUCATION

### Computer Engineering Program

#### National School of Computer Science - ENSI

 September 2021 - September 2024  Manouba, Tunisia

- National Engineering Diploma in Computer Science.

### Preparatory Physics - Chemistry Program

#### Preparatory Institute for Engineering Studies of Monastir - IPEIM

 September 2019 - July 2021  Monastir, Tunisia

- Ranked 88/1200 in the national exam.

### Experimental Sciences Baccalaureate

#### Pilot High School of Monastir

 September 2015 - June 2019  Monastir, Tunisia

- Baccalaureate diploma with honors.

## SKILLS

### Operating Systems

Windows Linux

### Programming Languages

Python Java C/C++ PHP Javascript

### Web Development

NodeJS Flask ExpressJS Bootstrap Angular React

### Databases

MongoDB MySQL PL/SQL

### Artificial Intelligence

TensorFlow Pytorch

### Others

UML CRISP-DM Git GitHub RASA

## LANGUAGES

French	Professional
English	Professional
Spanish	Beginner

## INTERESTS

Sports Graphic Design AI