

KARMOUS MOHAMED AMINE

Artificial Intelligence Engineering Student

@ medaminekarmous@gmail.com

+216 20701164

<https://www.linkedin.com/in/mohamed-amine-karmous-887983203/>

SUMMARY

Final year AI Engineering student with a strong foundation in machine learning, deep learning, natural language processing, computer vision, and generative AI. Eager to apply theoretical knowledge in a practical setting through a 4 to 6-month internship. Passionate about innovative AI solutions and dedicated to contributing to team projects while gaining hands-on experience in the field.

EXPERIENCE

Summer Engineering Internship

Horizop Energy

07/2024 - 09/2024 Ariana, Tunisia

- Developed a car number plate detection and recognition system using YOLOv8 and EasyOCR, achieving 95% accuracy.
- Implemented web scraping solutions with BeautifulSoup and Selenium to retrieve car details based on license plate numbers.
- Built a comprehensive web application for car charging using Angular and Spring Boot, enabling users to select charging stations for their vehicles.
- Created detailed documentation and user guides to facilitate future maintenance and user onboarding.

Summer Engineering Internship

Omnilink

07/2024 - 09/2024 Ariana, Tunisia

- Developed an advanced OCR system for tabular data extraction, utilizing YOLOv8 for detection with 98% accuracy.
- Employed PaddleOCR for effective extraction of table content, enhancing data retrieval processes.
- Integrated NLP techniques for Named Entity Recognition (NER), improving the accuracy and relevance of extracted information.
- Optimized overall workflow, significantly reducing processing time and increasing data accuracy.

Summer Engineering Internship

Lab-it

07/2023 - 09/2023 Sousse, Tunisia

- Developed a food delivery app similar to Uber Eats using Flutter and Firebase.
- Implemented a food recommendation system to suggest dishes and restaurants based on user preferences.
- Enhanced user experience through an intuitive interface and seamless functionality.
- Conducted user testing to gather feedback and iterated on features based on user insights.

Final Year Internship: Smart Parking App Development

Chaabane Technology group

01/2022 - 05/2022 Sousse, Tunisia

- Developed a smart parking application as a web and mobile app, along with an embedded system.
- Utilized HTML, CSS, and JavaScript for the front-end development.
- Implemented Node.js for backend functionality.
- Integrated features such as online reservations and payment processing for enhanced user experience.

EDUCATION

Data Science and Artificial intelligence engineering degree

EPI Digital School

09/2022 - Present

license in telecommunications

Isitcom

09/2019 - 06/2022

PROJECTS

JobMatch Parser

- Developed a CV parser application utilizing NLP techniques for effective resume data extraction.
- Employed SpaCy and Transformers with BERT for accurate text analysis and information retrieval.
- Integrated Google Gemini Pro API for ATS tracking to enhance recruitment efficiency.
- Employed Selenium and BeautifulSoup for web scraping job postings and candidate data.
- Implemented a matching algorithm to suggest candidates based on job descriptions.
- Built a job-matching app with Angular, .NET, and PostgreSQL.

NLP Video Summarizer

- Developed an app for video analysis using Transformers.
- Used SpaCy and NLTK for text summarization.
- Implemented video-to-text conversion and multi-language translation.
- Added voice narration for summarized content.
- Created a user-friendly interface for easy navigation and interaction.
- Enabled export of summaries in various formats for user convenience.

AI financial chatbot

- Calculates mortgage payments through an interactive Flask interface.
- Compares financial product returns in real-time using OpenAI.
- Generates personalized budgeting advice tailored to user data.
- Guides users step-by-step in completing financial forms online.
- Provides concise explanations of complex terms like "ETF" with practical examples.
- Offers real-time insights on stock market trends and investment options.

SKILLS

Programming Languages

Python, Java, typescript, Javascript

Machine Learning:

Scikit-learn, Pandas, MFlow, MLOps, Kubeflow

Deep Learning

Tensorflow, Pytorch, CNN, RNN, LSTM

Natural Language Processing (NLP):

NLTK, Spacy, BERT, Hugging Face Transformers, NER,

Computer vision

YOLO, OpenCV, OCR

Generative AI:

LLM,RAG,Pinecone

Web development:

Angular, Spring Boot, React js, node js, .net