Safoine Touil

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EXPERIENCE

AI DEVELOPER INTERN | TAM RAM Fashion
Feb 2025 – Jun 2025

Built an AI-powered scheduling system that optimized machine usage and visualized operations in a Gantt chart, boosting throughput by 35% and cutting delays by 40%. Integrated a scraping module to suggest optimal part replacements, and deployed a smart assistant to provide live insights, detect anomalies, and answer user queries.
Technologies: Python, ReactJS, MongoDB, OR-Tools, BeautifulSoup, Selenium, Mistral 7B, Ollama, RAG.

AI DEVELOPER INTERN | Autoliv
Jul 2024 – Sep 2024

Developed a real-time defect detection system for steering wheels using YOLOv8, improving quality control by identifying and localizing anomalies with high precision. Used instance segmentation to output exact defect coordinates and leveraged Roboflow for annotation and augmentation workflows.
Technologies: Python, YOLOv8, Roboflow.

AI DEVELOPER INTERN | Taher Safar University Hospital
Feb 2024 – Apr 2024

Led the development of a glaucoma detection model on fundus images, achieving 98% classification accuracy. Applied extensive data augmentation to improve generalization and managed the full ML pipeline, boosting early diagnosis rates by 30%.
Technologies: Python, TensorFlow, Keras, OpenCV.

PROJECTS

PDF DOCUMENT PROCESSING WITH LLM | Apr 2024 – May 2024

Built an intelligent system to extract, summarize, and answer queries from complex PDF files in real time using LLMs, streamlining document analysis and decision-making.
Technologies: Python, Streamlit, LangChain, Mistral, PyPDF2, pdfplumber, FPDF.

REAL-TIME POTHOLE DETECTION | Jun 2024 – Jul 2024

Created a mobile application for detecting potholes using YOLOv8, enabling municipalities to respond 60% faster via real-time GPS alerts and interactive mapping.
Technologies: YOLOv8, React Native, Email.js.

RESEARCH

RESEARCH AUTHOR | AICCSA 2024 – IEEE Conference
Oct 2024 | Sousse, Tunisia
Co-authored the paper *"Hybrid CNN-Swin Transformer for Glaucoma Screening in Fundus Images"*, presented at the 21st ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2024).
Link: ieeexplore.ieee.org/document/10912542

EDUCATION

EPI DIGITAL SCHOOL
Engineering Degree in Artificial Intelligence and Data Science
Graduated 2025 | Sousse, Tunisia

ISSAT SOUSSE UNIVERSITY
Bachelor's Degree in Computer Science
Graduated 2022 | Sousse, Tunisia

SKILLS

- **Deep Learning:** CNN, YOLOv8, Transformers, LLMs, LangChain, RAG, TensorFlow, Keras, OpenCV
- **Machine Learning:** Supervised learning (regression, classification), Unsupervised learning (clustering), Dimensionality reduction, Scikit-learn
- **Data Exploration:** Data collection, Data preprocessing, Exploratory Data Analysis (EDA), Feature selection and engineering, Interpretation and deployment
- **Programming Languages:** Javascript,Typescript, Python, Java, C
- **Web Development Frameworks:** React.js,React Native, Electron, Spring Boot, Nest.js, Express.js, Flask
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Environments:** Linux,Ubuntu, windows
- **Cloud and Platforms:** AWS, Docker, Firebase
- **Version Control:** Git
- **Data Visualization:** Matplotlib, Seaborn, Pandas, NumPy
- **Big Data:** Hadoop, Spark
- **Project Management Tools:** Jira, Trello
- **Creative Tools:** Figma, adobeXD

LANGUAGES

Arabic (Native) • English (Fluent) • French (Intermediate)