

Mohamed Sajed Gharsalli

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Professional Summary

AI Engineer specializing in building intelligent systems that solve real-world problems. Experienced in machine learning, deep learning, and large language models, with hands-on expertise in computer vision. Proven ability to transform complex data into scalable, practical products, delivering measurable impact in cross-functional teams. Quickly adopt emerging AI trends to deliver solutions that are both scalable and impactful.

Experience

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| AI Engineer, T-SCOP | 11/2024 – 06/2025 (Full-time) |
| <ul style="list-style-type: none">– Developed an end-to-end AI agent for smartphone repair, combining computer vision and vector similarity search to increase device model identification accuracy from 40% to 90%.– Integrated a RAG-powered LLM for intelligent issue triage, reducing manual effort and accelerating repair workflows. | |
| AI Engineer, Skwere ADS | 06/2024 – 08/2024 (Summer Internship) |
| <ul style="list-style-type: none">– Built a real-time speech-to-text system using OpenAI Whisper, streamlining daily operational communication. | |
| Software Engineer, RATNAFY | 06/2023 – 08/2023 (Summer Internship) |
| <ul style="list-style-type: none">– Designed and implemented a mobile version of a web platform for Tunisian student freelancers. | |

Education

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| National Diploma in ICT Engineering | 2022 – 2025 (GPA: 3.3/4.0) |
| <ul style="list-style-type: none">– Higher School of Communication of Tunis (SUP'COM), Ariana, Tunisia– Specializations: Computer Networks, Software Engineering, AI & Machine Learning | |
| Preparatory Studies for National Engineering Exam (Mathematics & Physics) | 2020 – 2022 (Ranked 121/1200) |
| <ul style="list-style-type: none">– Tunis Preparatory Engineering Institute (IPEIT), Tunis, Tunisia | |

Projects and Outside Experience

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| RAG-Based AI Tutor – Retrieval-Augmented Learning API (GitHub Repo) | 2025 |
| <ul style="list-style-type: none">– Designed and deployed a RAG-powered AI tutor capable of ingesting diverse academic documents, leveraging an advanced document parsing and embedding pipeline to perform semantic retrieval and deliver context aware answers to student queries.– Developed API endpoints to integrate the tutor into platforms, allowing personalized educational assistance. <p>Keywords: Retrieval-Augmented Generation, NLP, Python, Semantic Search, Vector Database, API Development</p> | |
| Billing Manager AI Agent – Paper-Receipt to Structured-Data Pipeline (GitHub Repo) | 2025 |
| <ul style="list-style-type: none">– Built an end-to-end AI agent to process paper receipts and invoices, performing OCR, semantic understanding, and automatic extraction of vendor details, line-items, quantities, and totals into structured JSON.– Implemented intelligent parsing and error correction to handle diverse and inconsistent receipt layouts, significantly reducing manual bookkeeping effort while ensuring high data accuracy. <p>Keywords: AI Agent, OCR, LLM, Layout Parsing, Automation</p> | |
| Math Solver AI Tutor – Step-by-Step Math Problem Solver (GitHub Repo) | 2025 |
| <ul style="list-style-type: none">– Developed an AI tutoring system capable of solving algebra and calculus problems while providing detailed step-by-step explanations for educational use.– Improved user engagement by ensuring precise reasoning and accuracy across a wide variety of mathematical problem types. <p>Keywords: AI Agent, LLM, E-learning, Langchain</p> | |
| Real-Time Speech Recognition System – Live Transcription with Whisper (GitHub Repo) | 2024 |
| <ul style="list-style-type: none">– Developed a real-time speech-to-text system capable of capturing live microphone input and providing immediate transcription for streaming or voice-driven applications.– Designed multi-language support to handle diverse speech patterns and vocabulary reliably. <p>Keywords: Speech-to-Text, Real-Time Transcription, Streaming, Whisper</p> | |

Skills

Programming Languages: Python, C/C++, JavaScript
Core CS: Data Structures, Algorithms, Mathematics, Probability & Inference, Networks, Big Data
AI/ML: Machine Learning, Deep Learning, Computer Vision, LLMs
Cloud & DevOps Tools: AWS, Azure, Docker, Git/GitHub
Frontend Development: React, React Native, Streamlit
Backend Development: NodeJs, FastAPI, Flask, API Integration

Certifications and Achievements

TOEIC: Score 940/990 ([Certificate](#))
DeepLearning.AI Certified: [Machine Learning](#), [Neural Networks and Deep Learning](#)