SALMAN SHEIKH

AI ENGINEER



+973 3913 1317
s4lmsheikh@gmail.com
linkedin.com/in/salman-sheikh-31x
Bahrain, Manama
www.salman.axis.bh

ABOUT ME

AI Engineer with 7+ years of hands-on experience designing, deploying, and scaling AI systems across LLMs, Generative AI, Computer Vision, NLP, and Speech Processing. Proven track record of leading engineering teams, architecting production level RAG pipelines, LLM-powered chatbots, and AI automation solutions deployed on AWS and Azure for government ministries, law firms, and enterprise clients. Skilled in OpenAI API integration, LangChain orchestration, and end-to-end MLOps with additional experience as an AI educator, developing curriculum and mentoring the next generation of AI practitioners.

TECHNICAL SKILLS

- **Languages & Frameworks:** Python, Pytorch, Tensorflow, FastAPI, Flask
- **Gen AI**: OpenAI API, LangChain, LlamaIndex, Huggingface, Transformers, RAG, Prompt Engineering, LLM Fine-tuning
- **Cloud & MLOps:** AWS, Azure, OCI, Docker, Kubernetes, MLflow
- **AI Domains:** NLP, Computer Vision, Speech & Audio processing, Generative AI, Object Detection
- **Other:** Electronics & IoT, Data Analysis
- **Vector Databases & AI Infrastructure:** Pinecone, Ollama, Whisper, FAISS
- **Electronics & IoT:** Raspberry Pi, Arduino, ESP32, Embedded C/C++, Edge AI, TensorRT, MQTT, NFC, I2C, SPI, UART, Sensor Integration, Robotics
- **AWS AI/ML:** AWS Bedrock, Amazon SageMaker, Amazon Transcribe, Bedrock Agents & Knowledge Bases, SageMaker Model Training & Deployment

EDUCATION

Bachelor of Science (B.Sc) in Information Systems

University of Bahrain (2021 - 2026)

EXPERIENCE

ARCHETYPE **(2025-2026)**

AI Engineer

- Developed and deployed custom LLM-based chatbots and AI agents tailored to diverse client requirements, improving operational efficiency
- Engineered end-to-end AI solutions with seamless integration on client infrastructure, ensuring scalability and production reliability
- Introduced model optimisations and pipeline improvements that enhanced performance, reduced latency, and improved user experience
- Collaborated closely with clients to translate business needs into practical, measurable AI products

FAB LAB BAHRAIN **(2023-2025)**

AI Instructor

- Taught AI fundamentals, Python programming, and LLM development to students aged 14–27
- Designed hands-on, project-based curriculum to simplify complex AI and machine learning concepts for diverse learners
- Mentored students through end-to-end AI projects, strengthening practical engineering and problem-solving skills
- Developed interactive teaching materials that significantly improved student engagement and knowledge retention

ARABIC DIGITAL RESEARCH INSTITUTE, BAHRAIN **(2021-2023)**

Lead AI Engineer **(2023)**

- Led cross-functional AI team to design, train, and deploy LLMs and advanced ML solutions across government, legal, and enterprise sectors
- Architected scalable AI workflows on AWS, OCI, and Azure, ensuring reliable high-performance deployments with minimal downtime
- Researched and implemented state-of-the-art architectures in NLP, Generative AI, Computer Vision, and Speech processing
- Contributed to government tender proposals and client pitches, winning critical contracts by demonstrating AI capability and ROI
- Oversaw end-to-end project execution from scoping through delivery while actively mentoring junior engineers and fostering technical growth
- Researched and implemented state-of-the-art AI architectures to be a market leader

ACHIEVEMENTS

- Won 1st Place, Bahrain IoT & AI Challenge. **(Sign Language Glove: Gesture-to-Speech Translation)**
- Won 1st Place – Information Systems Senior Exhibition, University of Bahrain
- Won Injaz Best Technology Excellence Award
- Won Injaz Best Innovation Venture Award

SOFT SKILLS

- **Leadership**
- **Communication**
- **Mentoring**
- **Project Management**
- **Curriculum Design**
- **Problem Solving**
- **Critical Thinking**
- **Collaboration**
- **Time Management**
- **Presentation Skills**
- **Decision Making**

AI Engineer **(2022)**

- Promoted within one year based on exceptional performance in ML development and production deployment
- Designed and deployed NLP models, LLM integrations, and computer vision pipelines across multiple client-facing projects
- Built and maintained robust AI pipelines, increasing system reliability and reducing deployment turnaround
- Gathered client requirements and translated them into scalable, outcome driven AI solutions

Junior Technician **(2021)**

- Supported development, testing, and iteration of ML models across computer vision and NLP tasks
- Contributed to data collection, preprocessing, and annotation workflows essential for model training quality
- Gained hands-on experience deploying AI systems on AWS and Azure cloud platforms

KEY PROJECTS

- **AXIS Sign Language Translator:** Real-time Translation of Arabic Sign Language to Speech, using embedded hardare and custom optimized AI model
- **LLM Deployment for Government Ministries:** Designed and deployed fine-tuned LLM infrastructure for multiple Bahraini government ministries, including secure on-premise integration and custom workflows
- **LLM RAG Chatbot for Law Firm**: Built a LangChain powered Retrieval-Augmented Generation chatbot enabling semantic search over legal documents, significantly reducing attorney research time
- **Generative Voice Assistan**t: AI voice assistant integrating speech-to-text, LLM reasoning via OpenAI API, and text-to-speech synthesis for natural human-AI conversation
- **AI Education Platform:** Interactive online learning platform for AI and Python education, featuring hands-on exercises and real-time feedback for student learners
- **Sewer Pipe AI Robot:** Autonomous pipe inspection robot equipped with a computer vision system for real-time defect detection and reporting in sewer infrastructure
- **Smart Cane:** AI Powered Cane to help Blind individuals navigate better using Computer Vision and Object Detection to alert the user of nearby dangers.
- **First Arabic Plagiarism Checker:** Contributed to the development of the world's first Arabic multilingual plagiarism checker, helping build the machine learning pipeline for accurate cross-language plagiarism detection.