OBAID SAJJAD

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OBJECTIVE:

AI Engineer with hands-on experience in **LLM fine-tuning, embedding model development, and AI pipeline design** for production-ready applications. Skilled in building **AI agents, automation workflows, and intelligent systems** that integrate seamlessly into business processes. Proficient in **deep learning, machine learning, and data wrangling**, with a strong foundation in development to deliver end-to-end AI solutions. Adept at optimizing model performance, deploying scalable architectures, and driving innovation through applied AI research and engineering.

PROFESSIONAL EXPERIENCE:

National University of Sciences and Technology
AI Engineer

May 2025 – Present

Fine-tuned LLMs using parameter-efficient methods for multilingual and task-specific use cases (e.g., Urdu transliteration). Built custom datasets for low-resource languages. Worked on multi-agent systems (LangGraph, MCP) and optimized LLM inference and deployment. Created Embedding models for Low resource languages (e.g Urdu, Punjabi).

ITSOLERA Pvt Ltd Islamabad
AI Engineer

Jun 2024 – Sept 2024

Built RAG-based systems using LangChain for domain-specific applications including education, healthcare, and customer support, enabling context-aware question answering. Gained hands-on experience in **prompt engineering** and integrating LLMs with data sources and application frontends.

Big Data Business Intelligence Pvt Ltd (UK)
Mobile App Developer

Feb 2023 – May 2023

Developed cross-platform mobile applications using React Native for diverse domains including e-commerce, business management, and record-keeping. Built robust backends in JavaScript and Node.js, integrating databases such as SQLite, Firebase, and MongoDB. Delivered responsive, high-performance apps with seamless frontend-backend integration and optimized user experience across Android and iOS platforms.

EDUCATION:

National University of Sciences and Technology   Islamabad, Pakistan
BE Software Engineering   *(CGPA: 3.79)*   Sept 2022 – Present

WRITINGS AND PUBLICATIONS:

- Testing Chatbot Systems using Agentic AI approach   (Journal - IJIST)
- Understanding LTM and STM in AI agents   (Medium – Article)
- DO LLM realy learn from our queries?   (Medium - Article)

TECHNICAL SKILLS:

AI & ML:	Python, LangChain, NLP, AI Agents, LangGraph, Transformers, Vector Databases, Streamlit, Flask, FastAPI
Development:	React Native, Node.js, Docker, Git, Relational Databases, Web Scraping
Data & Analytics:	Excel, Power BI, Tableau, SQL, MongoDB, Data Wrangling

PROJECTS:

Voice integrated Medical Chatbot

AI-powered chatbot with voice input/output capabilities to assist prescriptions and appointment in nearby hospitals. Integrated speech recognition for seamless user interaction.

Email Voice Assistant for Blind

Voice-enabled assistant that reads emails aloud and allows voice-based navigation and replies, designed specifically to improve digital accessibility for visually impaired users.

Multi Lingual Text to speech conversion and translation

Created a system that translates text between multiple languages and converts it into natural-sounding speech, facilitating cross-lingual communication and accessibility.

Chatbot QA Testing System using Agentic AI

Research

Automate QA testing using agent-based AI to evaluate chatbot responses for accuracy, coherence, and completeness across various scenarios and datasets. Chatbot security and Hallucination performance measurements, etc.

Attendance System using Facial Recognition

Attendance system using facial recognition with integrated database. Implemented it on hardware (esp32-cam) to make it useful for real use.

LinkedIn Messaging Automation

Developed a Selenium-based automation tool to streamline LinkedIn outreach, enabling automated and targeted messaging to Project Managers, HR professionals, and Technical Leaders.

Ask Deen : Islamic Mobile Application

Enhanced search functionality through Retrieval-Augmented Generation (RAG) by creating a vector database and knowledge base of Quranic ayahs categorized by topics and subtopics; implemented web scraping to enrich content sources.