

Fazeel Asghar

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Education

Islamia University of Bahawalpur
Bachelor of Science - IT, Information technology

Work Experience

7 Kings Code AI Backend Embedded Systems Developer	On Site Lahore	May 2025 - Current
<ul style="list-style-type: none">Developed a multi-session conversational AI agent, integrated with the Unitree Go2 Pro quadruped robot, enabling adaptive interaction and task execution.Built a GenAI-based resume parser for a proprietary job-hunting platform, and deployed an autonomous email triage agent to classify messages and notify the support team accordingly. Link: https://jobshopper.com/Trained reinforcement learning agents for decision-making tasks and Agentic AI systems for autonomous workflows in real-world scenarios.Implemented real-time stock prediction models using live market data, improving forecast precision.Optimized IoT-to-Django data pipelines for efficient, scalable communication across edge and cloud systems.Enhanced system performance through targeted debugging and optimization, improving data accuracy and responsiveness.Collaborated with international research teams to align AI-driven solutions with healthcare needs and applications.		
Safe-RH AI Research Assistant	On Site Bahawalpur	July 2024 - May 2025
<ul style="list-style-type: none">Developed a scalable AI-driven rural health monitoring system for real-time patient analysis.Trained machine learning models for heart disease prediction using real-time patient data.Integrated Raspberry Pi 2 with medical devices to collect, process, and transmit data to a Django-based server for review by doctors and paramedics.Optimized data pipelines to ensure reliable IoT-to-Django communication and system performance.Debugged and fine-tuned the system to enhance data accuracy, latency, and stability.Collaborated with international research teams, including the University of the West of Scotland (UWS), to align AI solutions with rural healthcare needs.Project link: https://safe-rh-mis.com/		
UWS Research AI Intern	On Site Scotland, Paisley	July 2024 - Aug -2024
<ul style="list-style-type: none">Sub-initiative and Sponsored by the Safe-Rh, here I designed & developed an AI-Integrated Smart Wheelchair with IoT-based vital signs monitoring for enhanced patient care.Implemented Obstacle Detection & Avoidance using YOLOv8n Lite, Arduino UNO, and ultrasonic sensors for autonomous navigation.Engineered Real-Time Health Monitoring by transmitting patient vitals to a remote MySQL database, ensuring continuous tracking and timely interventions.		

Projects

Small Autonomous Car (Taxi Simulation)	Final Year Project	July 2025-May 2025
<ul style="list-style-type: none">Designed and implemented a sensor-driven autonomous navigation system with obstacle detection, path planning, and GPS-based routing. Integrated a web interface for dynamic location selection, enabling automated pick-and-drop functionality.Employed Raspberry Pi, OpenCV, and machine learning algorithms for real-time decision-making and safe mobility. Developed a Django-PostgreSQL backend with AWS Lambda to ensure scalable, event-driven processing.		
Medical Agentic AI Voice Chatbot	Private Company	Mar 2025
<ul style="list-style-type: none">Built a voice-enabled medical agentic AI chatbot using DeepGram for speech input and LangChain for multi-agent orchestration. Designed RAG-based nodes for symptom extraction, diagnosis, treatment recommendation, and fallback handling. Enabled contextual medical reasoning with dynamic and safe response generation.		
RecoDyn: RL-Based Dynamic Product Recommender	Private Company	Jan 2025
<ul style="list-style-type: none">Developed a dynamic product recommendation system using Reinforcement Learning (Deep Q-Learning) to personalize user experiences based on real-time session behavior and interaction history. Optimized long-term engagement through reward shaping and integrated the system with a FastAPI backend and FAISS-based product filtering.		

Skills

Generative AI, MCP, LangGraph, Langsmith LangChain, RAG, Fine-Tuning, Hugging Face Transformers, Large Language Models (LLMs), LORA, QLORA, Computer Vision, MLOps, Mlflow, AWS, EC2, ECR, S3, IAM, Docker, CI/CD, Lambda, API Gateway, Django, Django-Rest-Framework, FastAPI, PostgreSQL, MySQL, MongoDB, Flask, Predictive Modeling, IoT, Sensors.