

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

## Projects

Small Autonomous Car (Taxi Simulation)	Final Year Project	July 2025-May 2025
<ul style="list-style-type: none"><li>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.</li><li>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.</li></ul>		
Medical Agentic AI Voice Chatbot	Private Company	Mar 2025
<ul style="list-style-type: none"><li>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.</li></ul>		
RecoDyn: RL-Based Dynamic Product Recommender	Private Company	Jan 2025
<ul style="list-style-type: none"><li>Developed a dynamic product recommendation system using <b>Reinforcement Learning</b> (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.</li></ul>		

## 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.