Asad Irfan

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Sabina Town P#24, Street No 2
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Objective

Passionate AI practitioner with expertise in Machine Learning, Deep Learning, Reinforcement Learning, NLP, Computer Vision, and Embedding Systems, driven to build intelligent systems to solve real-world problems and fuel innovation.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) — Topi, PK — 2022 - 2026
Bachelors of Science in Artificial Intelligence
CGPA: 3.39/4.00

Advanced AI Bootcamp by Sky-Electric, Topi (GIKI) — Topi, PK — July 2024 - August 2024
Ranked among the top 10 out of 55 participants nationwide in an advanced Deep Neural Networks Bootcamp. Gained hands-on expertise in CNNs, Transformers, and GANs, along with hyperparameter tuning and model deployment for real-world AI applications.
Grades: 9

Punjab Group of Colleges, Faisalabad (PGC) — Faisalabad, PK — 2020 - 2022
• FSC (Pre-Engineering)
Grades: 89%

Work Experience

Team Foxtrot — Topi, PK — 2024 - Present
- Team which works on manufacturing of unmanned autonomous vehicles (UAVs).
- Worked on developing software development in embedded systems for classifying shapes to deploy payloads.

Academic Projects

Android Malware Detection using Transfer Learning
Conducted a study on classifying Android apps as benign or malicious using transfer learning techniques. Leveraged Python and Kaggle datasets for performance benchmarking.

Minutes.AI – Meeting Productivity Tool
Developed a smart tool that transcribes meeting audio into text, extracts key insights, and generates action items automatically. Implemented agentic AI principles with React, TailwindCSS, TypeScript, and APIs to streamline meeting analysis.

Comparative Study of Reinforcement Learning Algorithms for Fighter Jet Navigation and Combat with Explainable AI
Implemented PPO, A2C, DQN variants, and gradient methods in a fighter jet simulation to evaluate RL performance and explainability in high-stakes control tasks.

Chatting Application
Developed a basic chat application using PostgreSQL for backend data handling and JS, HTML, and CSS for the frontend. Enabled real-time user communication with a user-friendly interface.

Single-Cycle CPU Processor using RISC-V
Designed and simulated a single-cycle CPU processor based on the RISC-V architecture. Focused on instruction execution, memory access, and control unit design.

Smart Automobile Rental & Maintenance System
Created a C++ based application for renting and managing automobile services. Included features like vehicle tracking, maintenance scheduling, and user booking interface.

AI-Based Attendance System
Created a face-recognition attendance system that captures classroom images and automatically marks attendance. Used MT-CNN and YOLO models in Python with a frontend built using HTML and CSS.

Predictive PV and Load Forecasting Model
Built a machine learning model to predict Photovoltaic (PV) power generation and user electricity load.

MedAI: A Multi-Modal AI Assistant
Developed MedAI, an AI-powered healthcare assistant integrating drug recommendation, image captioning, medical dialogue QA, ECG analysis, and pose estimation using state-of-the-art LLMs and VLMs.

Awards & Achievements

- 1st Prize Winner – Netsol Transcend AI Hackathon (Team Tricon)
- 3× Dean’s Roll of Honor Certificate Holder
- Certified in Advanced Deep Neural Networks Bootcamp – GIKI (SkyElectric)
- Certified in NVIDIA Fundamentals of Deep Learning and Diffusion Models

Skills

- **Hard Skills** : Proficient in programming (Python, JavaScript, C++, Verilog), machine learning algorithms, deep learning techniques, and natural language processing. Skilled in data manipulation using Pandas, NumPy, and SQL, along with experience in neural networks and containerization tools like Docker.
- **Soft Skills** : Teamwork, Leadership, Adaptability, Resilience, Time Management, and Effective Communication.