MOHAMMAD FAIZ KHAN

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Educational Background

Manipal University of Jaipur   **Sep 2022 - Jul 2026**
B.Tech in CSE (AIML)

Certifications: AI & ML(NPTEL) , Probability & Statistics(Coursera), RDBMS (Oracle), Financial Accounting, Object Oriented Programming (OOP), Data Structures & Algorithms (NPTEL) , Computer vision(Coursera)

Professional Experience

Oil and Natural Gas Corporation(ONGC)   **Jun 2025 - Aug 2025**
SAP ABAP/AI Intern   *Delhi,India*

- **Designed** a centralized **SAP ABAP dashboard** with HANA DB for oil well management, automating maintenance logs, creating custom domains and transactions, and **reducing manual reporting time by 40%**
- Preprocessed 8M+ data points using Python, **FAISS**, **transformers(PyTorch)** to build structured datasets, boosting visualization **(Pandas, Matplotlib, PowerBI)** and enabling faster decisions across 10+ teams

Tenet Networks   **May 2024 - Jul 2024**
Software Engineer Intern   *Noida,India*

- Created a **chatbot** with **TensorFlow** and **WordNet**, increasing user satisfaction by **20%** and reducing query resolution time by **35%**, enabling faster and more reliable customer support
- Optimized digital infrastructure by **revamping React.js website on Azure** (↓60% load time, ↓40% bounce rate) and **automating router IP routing** (↓30% latency, ↑reliability)

Projects

GIG (Greatest Idea Generation) | *Python, Ollama, Blockchain (SHA-256), Federated Learning (-DP)*   **Sep 2025**

- **Developed** a multi-factor **ranking system** fusing **9 scoring components** (Elo, Bayesian, Causal Reasoning) with **ROI–Risk Pareto optimization**, boosting ranking precision and interpretability
- **Optimized** throughput to **127 ideas/sec** using **FAISS vector search**, ensuring **100% data integrity** and real-time adaptability via federated aggregation (FedAvg, Median, Trimmed Mean)

Unified Stock Market Analysis Framework | *Python, SARIMA-GARCH, FinBERT, PPO-RL*   **Feb 2025**

- Engineered a hybrid **AI trading model** using **SARIMA-GARCH**, **FinBERT**, and **PPO RL**, outperforming buy-and-hold by **3.3%** with a **Sharpe Ratio of 0.89**
- Orchestrated a custom RL system processing **500K+ weekly data points**, enabling **risk-aware allocation** and delivering **15.6% returns** with **30% faster decisions**

Blind Cap | *Python, OpenCV, YOLO*   **Mar 2024**

- Created an **AI-powered wearable cap** with **YOLOv8, OpenCV, and COCO**, delivering **97% real-time detection accuracy** and **40% faster efficiency** by optimizing **1M+ image frames** for deployment-ready performance
- Leveraged an **ergonomic hardware architecture** with **proximity sensing** and dual-mode feedback (**audio/haptic**), improving **navigational safety by 60%** and enabling accessible, real-world use for visually impaired users

Technical Skills

Programming & Frameworks: Python, C, SQL
AI/ML & Data: Machine Learning, Deep Learning, NLP, LLMs, Transformers, Reinforcement Learning, OpenCV, FAISS, Pandas, NumPy, Scikit-learn, Power BI, SAP HANA, MongoDB, SQLite
Systems & Cloud: SAP ABAP, SAP HANA, Azure, Git, GitHub, Figma

Achievements

- Selected as **Football Team Captain** from 50+ members, led team in 15+ tournaments for two years
- Directed **HackX Hackathon**, engaging 300+ students and producing 40+ projects
- Secured **Runner-Up** in **ACM Hackathon** among 200+ teams for innovative, efficient coding solutions
- **ONGC Merit Scholar:** for five consecutive years for excellence in field of academics