Rishul Gupta

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Education

National Institute of Technology, Kurukshetra   B.Tech in Information Technology   *Aug 2023 – Present*

Work Experience

AI Intern – Info Edge (Naukri, 99acres, Shiksha, Jeevansathi)   *Jun 2025 – Jul 2025*

- Developed agentic AI prototypes using multi-agent orchestration to automate support and content workflows across Naukri, 99acres, Shiksha and Jeevansathi platforms.
- Designed GenAI pipelines integrating OpenAI LLMs, LangChain, and RAG to enhance recommendation engines and dynamic user experiences.
- Improved Naukri's job search matching accuracy by **35%** using vector-based semantic search and profile-optimized query expansion.
- Collaborated with search engineering team to deploy a GenAI-powered smart filtering system for recruiters, improving job-to-candidate relevance by **40%**.

Projects

Smart Bike Helmet App   github.com/RishulGupta/SmartBikeHelmet↗

- Engineered an IoT-enabled helmet hardware with **real-time crash detection**, reducing false alarms by **35%**.
- Developed an AI-powered accident prediction system using real-time sensor data stored in Firebase Realtime Database to anticipate collision risks and provide proactive alerts.
- Designed an intuitive mobile app with Firebase Authentication for secure user access, enabling real-time monitoring, user alerts, hands free calling and emergency contact management reducing data sync latency from **1.5s to 0.8s**.

AI-Based Image Processing System (Ongoing)

- Programmed a deep learning model using TensorFlow and ONNX, achieving **92% accuracy** on **50,000+ images**.
- Optimized neural networks, cutting inference time by **57%** (**2.1s to 0.9s**).
- Achieved an F1-score of **0.87** for better precision-recall balance.

Achievements

2nd Place – Student Innovation Showcase   *Innoventure 2025*

- Led a **3 member** team, managing end-to-end hardware and software development, securing **2nd** position from over **100+** competing teams.
- Built an IoT-powered Smart Bike Helmet integrating AI-based deep learning crash detection (**90%+** accuracy), emergency SOS alerts, and GPS tracking.
- Implemented mobile app integration using Android development & Firebase, enabling real-time monitoring,hands-free calls, and helmet tracking.

College level winners, Smart India Hackathon

- Enhanced an advanced SAR image colorization model using Deep Learning, achieving **25% faster processing** and improving colorization accuracy by **15%**.
- Trained a custom deep learning model on SAR-Optical image pairs, achieving improved predictive accuracy.
- Optimized preprocessing techniques, reducing data cleaning time by **30%**.

Skills

Languages: C/C++, Kotlin, Python, Java
Frameworks: XML, Jetpack Compose, LangChain, Spring AI
Databases and Architecture: SQL, RoomDB, Firebase, MVVM, ChromaDB, FAISS
APIs and Libraries: RESTful APIs, MCP server, Retrofit, OpenAI APIs
Technologies: Machine Learning, Deep Learning, TensorFlow, IoT, Generative AI, RAG, Agentic AI