

# Rishul Gupta

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## Education

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

## Work Experience

### Software Engineer Intern - Naukri.com

Jun 2025 – Jul 2025

- Architected agentic AI prototypes using multi-agent orchestration frameworks, automating **15+** support work-flows and reducing manual content processing time by **60%** across Naukri platforms
- Constructed Gen-AI pipelines integrating OpenAI LLMs, LangChain, and RAG architecture to enhance recommendation engines, resulting in **28%** increase in user engagement metrics
- Partnered with an **8-member** search engineering team and clearly delivered Gen-AI filtering insights to product managers, aligning stakeholders and boosting job-to-candidate relevance by **40%**

## Projects

### Smart Bike Helmet App

[github.com/RishulGupta/SmartBikeHelmet](https://github.com/RishulGupta/SmartBikeHelmet) ↗

- Engineered IoT-enabled helmet hardware with real-time crash detection algorithms, reducing false alarms by **35%** and achieving **90%+** accuracy across **500+** test scenarios
- Developed AI-powered accident prediction system using real-time sensor data stored in Firebase Realtime Database, analyzing **10K+** data points per second to anticipate collision risks
- Implemented hands-free calling and reduced data sync latency from **1.5s to 0.8s**
- Optimized battery consumption by **40%** through efficient data transmission protocols and implemented GPS tracking with **3-meter** accuracy for emergency response

### AI Finance Coach

[github.com/RishulGupta/Finance-Coach-AI](https://github.com/RishulGupta/Finance-Coach-AI) ↗

- Constructed Gen-AI agent capable of parsing **50+** bank statement formats and answering **1000+** financial queries with **95%** accuracy
- Integrated live market data feeds and financial news APIs via Crew AI agents, processing **10K+** daily market updates for real-time investment insights
- Achieved **92% accuracy** on **100K+** transaction categorizations using FAISS retrieval with LangChain and PyTorch, enabling personalized financial behavior analysis

## Achievements

### 2nd Place – Student Innovation Showcase

Innoventure 2025

- Directed **3-member** team and securing **2nd position** from **100+** competing teams and pitched final product to an audience of **200+** including industry judges, simplifying technical details for non-technical people.
- Delivered comprehensive IoT-powered Smart Bike Helmet solution integrating AI-based deep learning crash detection with **90%+** accuracy, emergency SOS alerts, and GPS tracking within **5-second** response time
- Executed mobile app integration using Android development and Firebase backend, enabling real-time monitoring with **99.9%** uptime

### College Level Winners

Smart India Hackathon

- Enhanced advanced Synthetic Aperture Radar (SAR) image colorization model using Deep Learning techniques, achieving **25% faster processing** and improving colorization accuracy by **15%** on **5K+** test images
- Trained custom convolutional neural network on **10K+** SAR-Optical image pairs using TensorFlow, achieving **87%** predictive accuracy and reducing model inference time by **30%**
- Streamlined preprocessing pipeline with automated data cleaning techniques, reducing manual processing time by **30%** and handling **2GB+** of satellite imagery data

## Skills

**Languages:** C/C++, Kotlin, Python, Java, Javascript

**Frameworks:** XML, Jetpack Compose, LangChain, Spring AI, Node.js

**Databases and Architecture:** SQL, RoomDB, Firebase, MVVM, ChromaDB, FAISS

**APIs and Libraries:** RESTful APIs, MCP server, Retrofit, OpenAI APIs, SOA

**Technologies:** Machine Learning, Deep Learning, Git, Github, Generative AI, RAG, Agentic AI, HTTP

**Core Concepts:** Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems