

# Mehul Goyal

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## EDUCATION

2023 - present BTech(Hons) CSE-AI/ML, Minors in Fintech at **RV University** (GPA: 8.95/10.00)

## WORK EXPERIENCE

### Machine Learning Trainee, Tata Elxsi

June 2025 - Sept 2025

Worked on an industry client project: customer segmentation, building AI/genAI models, developing AI agents and RAG pipelines for automation and decision support.

### Machine Learning Intern, RV University

June 2025 - Sept 2025

Developed a computer vision pipeline using YOLOv11 for object detection and a classification model for disaster management; integrated into an end-to-end solution for emergency response.

### AI/ML Intern, Dhee Centre of AI and Data Science

June 2024 - Sept 2024

Developed AI/ML projects, focusing on data analysis and model development with real-world datasets; enhanced leadership and teamwork skills.

## PROJECTS

### SilentSync- Gloves to convert Sign language to text

[Link to GitHub](#)

Designed and implemented a smart glove-based gesture recognition system using IMU and IR sensor data, powered by machine learning for optimized for real-time execution on ESP32.

### Agentic Scientific Debugger

[Link to GitHub](#)

Built an Agentic Scientific Debugger that autonomously analyzes machine learning experiments to detect methodological flaws and generate structured, evidence-based corrective recommendations using open-source LLMs.

### Pet Compass (M-hash Hackathon, 4th/400+ teams)

[Link to GitHub](#)

Android app for pet owners: vet locator, dog parks, events, and e-commerce.

## SKILLS

**Languages** Python, Java, C++ (NPTEL Certification), C, SQL

**AI/ML** TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, Langchain, RAG, LLMs

**Tools** Git, VS Code, CLI, Microsoft Excel, Firebase, Docker

**WebDev** Next.js, MERN, Flask, Tailwind, TypeScript, SQLAlchemy, API Integration

**Others** Data Engineering, Android Dev, Quantum (Qiskit)

**Soft Skills** Leadership, Communication, Teamwork, Adaptability, Problem Solving

## ADDITIONAL

**Awards** Awarded Best Project for SilentSync (sign-language-to-text/audio gloves) at an IEEE pre-conference, secured 2nd place for the same project at the IEEE RAS Conference 2025, and achieved 4th place at the M-Hash Hackathon 2024 (PetCompass) among 400+ teams.

**Certifications** Quantum Computing with IBM Qiskit (IUCEE); IBM SkillsBuild—Generative AI in Action, Network Security, and Big Data Analytics; Agentic AI (5-day course by Google); Salesforce Agentblazer.