

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.