

# Ishan Maharjan

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## SUMMARY

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Currently serving as a Teaching Assistant at IIMS College and working as a freelance AI automation developer. Engaged in research projects spanning hate speech detection, Reconfigurable Intelligent Surfaces (RIS) in Nepal, and network security - each integrating AI techniques. Aspiring to advance as an AI researcher, with a focus on developing innovative, impactful solutions at the intersection of artificial intelligence and real-world applications.

## EXPERIENCE

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**Freelancing: AI Automation** May 2025 - present

Making use of N8N automation to build SaaS and workflow automation

**Projects:** – Meta messaging automation, Viral Content Finder, Portfolio Website with RAG chatbot, Landing page automation

**Teaching Assistant: IIMS College, Kathmandu, Nepal** Nov 2024 - present

Designed and delivered machine learning and data science courses, creating interactive, hands-on learning environments while mentoring students in data-driven projects.

**Modules taught:** – Data Science Principle, Data Visualization, Big Data Technology, Database System, Inferential Mathematics

**Data Scientist: Code Vatika** May 2023 - Nov 2024

Worked as Data scientist. Proficient in Python, SQL, and machine learning frameworks.

**Responsibilities:** – Data preparation, Exploratory Data Analysis (EDA), Feature Engineering, Model Development, Data Visualization

## EDUCATION

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2021-2024 Bachelor of Information Technology at **IIMS College**  
2018 - 2020 Physical Science at **Khwopa Higher Secondary School**  
School -2018 Physical Science at **Saipal Academy**

## CERTIFICATION

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Machine Learning Specialization  
Deep Learning Specialization

## PROJECTS

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- Meta Automation with RAG + PostgreSQL
- Security Compliance RAG Chatbot – SecurityPal Hackathon
- Hate Speech Detection (Multimodal – CLIP, RES+BERT, MemeCLIP)
- College Exam Q&A RAG Chatbot
- 3D Bone Segmentation from CT Scans (Computer Vision)

- Multimodal Meme Classification
- Tiny VGG and ResNet (from scratch)
- Logistic Regression, Decision Tree, K-Means (from scratch)
- Text Summarization App (NLP)

## SKILLS

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**Programming** R, Python(Pandas, PyTorch, NumPy, Scikit Learn. etc.) C, C++, SQL, Java.

**Miscellaneous** LLM APIs, Docker, Microsoft Office, Tableau, N8N, Supabase, Git and Github.

## ACTIVITIES

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- Participant – 5th Annual Nepal Artificial Intelligence School (ANAIS) 2024/25
- Participant – Nepal Hacks @ SecurityPal 3.0 (42-hour AI hackathon)