Curriculum Vitae — Rishi K. Marseni

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Curriculum Vitae

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Professional profile

Computer science educator and practitioner with an MSc in Computer Science (university full scholarship; Dean's List, GPA 3.92) and seven years of university teaching experience since 2019. Teaches artificial intelligence, cloud computing, distributed systems and software engineering to undergraduate engineering students, and has guided cohorts of students through AWS Academy Cloud Foundations and Cloud Architecting pathways as an AWS educator since 2022. Research and supervision cover computer vision/deep learning, affective computing and applied cryptography, with several supervised undergraduate projects published as papers. Serves on the technical programme committees of ICSET 2024 and ICICSET 2026 and mentors student innovation initiatives, including the FOREWARN Disaster Hackathon. Combines hands-on Linux server administration with a focus on systems research in operating systems, virtualisation and confidential cloud computing.

Education

- **MSc, Computer Science** — Nepal College of Information Technology / Pokhara University, February 2019
  University full scholarship recipient; graduated on the Dean's List (GPA 3.92).
  Master's thesis: *A novel approach in image cryptography based on Chaos theory and Elliptic Curve*
- **BE, Computer Engineering** — June 2016

Employment history

Assistant Professor — Nepal College of Information Technology, Lalitpur | 2019–present
Courses taught to undergraduate engineering students: AINN, Cloud Computing Application Foundation, Distributed Systems and Cloud Computing, Principles of Programming Languages, Artificial Intelligence, Software Engineering, Object-Oriented Design and Modelling, Enterprise Application Development.
Research and training in deep learning, focusing on CNNs for image recognition/classification and GANs for image synthesis and augmentation. Supervision of undergraduate final-year projects in computer vision and systems topics. Day-to-day server administration tasks.

AWS Educator — since 2022
Active AWS educator, delivering cloud-computing course content and practical training for students.

Senior IT Consultant — Green Decision Labs and Research (GD Labs), Lalitpur
Development and prototyping of low-cost air-quality monitoring systems.

Research interests

- Applied cryptography and secure information systems (chaos- and elliptic-curve-based image encryption)
- Computer vision: facial expression recognition, affective computing, image processing and pattern recognition
- IoT, remote sensing and automation
- Target direction: operating systems, virtualisation and confidential cloud computing

Publications and supervised work

- **PlantNetV1: A Deep Learning-Based Approach for Plant Disease Detection.** Dipak Raj Giri, Dhiraj Pant, Dipa Joshi, Menuka Paneru, Anuradha Bhatta, **Rishi Marseni** (2025). DOI: 10.13140/RG.2.2.29179.43047
- Several supervised undergraduate projects published as papers (titles and venues available on request).

Language skills

- **Nepali** — native
- **English** — professional working proficiency (university medium of instruction)
- **Hindi** — fluent

Digital and technical skills

- **Core expertise:** Python; machine learning and deep learning with TensorFlow, Keras, PyTorch, scikit-learn and OpenCV; Linux server administration; AWS Academy teaching across Cloud Foundations and Cloud Architecting (educator since 2022).
- **Working knowledge:** SQL with MySQL and PostgreSQL; containerisation and CI/CD using Docker, Kubernetes, Jenkins, GitHub Actions and GitLab Runner; cloud platforms including AWS, Google Cloud Platform and Microsoft Azure; backend services with Django, FastAPI, RESTful APIs, gRPC and GraphQL.
- **Foundational and supporting:** C programming (foundational); React/Next.js front-end development; MongoDB and Firebase; version control with Git, GitHub and GitLab; technical documentation with LaTeX and UML.

Academic and professional service

- Technical Program Committee member, **ICSET 2024** (International Conference on Innovation in Computing, Science, Engineering & Technology)
- Advisor, ICEC–Far Western University student club
- Supervision of BSc final-year projects and reports (computer vision and systems)