UTTAM NEPAL

Cybersecurity & Machine Learning Researcher | IT Professional

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PROFILE

Cybersecurity and machine learning researcher focused on robust, generalisable machine learning for cyber threat detection, with ongoing research centred on malicious URL detection. Currently completing a Master of Information Technology (Cybersecurity) at Melbourne Institute of Higher Education. Background also includes web development, digital marketing, and project management across web and e-commerce platforms.

EDUCATION

Master of Information Technology (Cybersecurity)

Melbourne Institute of Higher Education, Australia. Current, expected completion December 2026.

Transferred from Deakin University to specialise in Cybersecurity.

Master of Information Technology (Professional)

Deakin University, Australia. ~1 year of study; credits transferred to MIHE.

Bachelor of Science in Computer Science and Information Technology

Tribhuvan University, Nepal. 2018–2023.

RESEARCH

Research focus: robust and generalisable machine learning for cyber threat detection, centred on malicious URL detection.

- Accepted for presentation: poster paper, ADMA 2026, Hong Kong SAR (13–15 November 2026)
- Multiple additional pieces of research ongoing or submitted for peer review, spanning cross-dataset generalisation, counterfactual robustness testing, and representation comparison in malicious URL detection

PROFESSIONAL EXPERIENCE

Project Manager

Reflex IT Solution — 2022–2024

Took on full ownership of project delivery: managing timelines, teams, and client communication across a wide range of web and mobile application projects, including hospitality booking platforms, e-commerce stores, and B2B/B2C distribution platforms.

Instructor, Digital Marketing

Norma Education and Training — 2022–2023

Taught digital marketing, covering content creation, SEO, social media handling, campaign management, and analytics.

Jr. Project Manager

Reflex IT Solution — 2020–2022

Supported project coordination across client engagements, with a strong focus on e-commerce, including web apps and single/multi-vendor platforms.

Digital Marketing & Web Design Roles

MNA Venture Pvt. Ltd. · Softcode Pvt. Ltd. — 2019–2020

Digital Marketing Expert and Digital Marketing Coordinator roles, building skills in social media marketing and WordPress design.

SELECTED PROJECT

SafeBrowse

Full-stack hybrid machine learning web application for phishing and malicious URL detection, integrating 7 models including DeepTrace, the hybrid model from this research. Solo build: React, FastAPI, PyTorch, Hugging Face Transformers, XGBoost.

TECHNICAL SKILLS

Programming: Python, C, C++, Java, C#, PHP, JavaScript

Machine Learning: PyTorch, scikit-learn, XGBoost, Random Forest, BERT / Transformers, TF-IDF, NLP

Web / Software: MERN Stack, MongoDB, Express, React, Node.js, PHP, WordPress

Cybersecurity / Research: Malicious URL Detection, Phishing Detection, Cyber Threat Intelligence, Domain-Disjoint Evaluation, Robust ML

Project Management Tools: Jira, Trello, Agile / Scrum methodologies