

MILAN TAMANG

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PROFILE

AI Engineer with experience in developing intelligent systems, AI-driven applications, and software solutions. Skilled in designing and implementing machine learning solutions, integrating AI capabilities into scalable software products, and building data-driven systems for real-world applications. Experienced in bridging artificial intelligence with modern software engineering practices to create reliable, efficient, and impactful solutions. Passionate about advancing innovation in Artificial Intelligence, Machine Learning, Data Science, and Software Engineering.

EDUCATION

Bachelor of Science in Computer Science and Information Technology — B.Sc. CSIT

Ambition College, Kathmandu, Nepal

2021 – 2025

Higher Secondary Education, Science Stream (+2 Science)

Golden Gate International College, Kathmandu, Nepal

2018 – 2019

Secondary Education Examination — SEE

Little Garden English School, Nepal

2017

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, C, C++

Frameworks & APIs: Django, Flask, REST APIs

AI & Machine Learning: YOLOv8, LSTM, BiLSTM, SentenceTransformers, FAISS, OCR, NLP, Semantic Search, RAG

Computer Vision: OpenCV, PaddleOCR, EasyOCR, Pillow, Image Preprocessing

Frontend: HTML, CSS, JavaScript, React.js, Bootstrap, Next.js

Databases: PostgreSQL, MongoDB, MySQL

Tools: Git, Docker, VS Code, Conda, Google Colab

PROFESSIONAL EXPERIENCE

AI Engineer

Axis Software Company, Kathmandu, Nepal

August 2025 – Present

- Developed AI-based systems for invoice detection, document extraction, billing verification, semantic search, chatbot development, and automation workflows.

- Built computer vision and OCR solutions using YOLOv8, OpenCV, EasyOCR, PaddleOCR, CLAHE, and image preprocessing techniques.
- Developed Flask APIs to serve AI models and provide structured outputs for backend integration.
- Built a hybrid semantic search engine using SentenceTransformers and FAISS to improve search relevance.
- Worked on multilingual chatbot development supporting Nepali, Roman Nepali, and English.
- Developed React.js and Next.js interfaces for AI dashboards, extracted data, search results, and prediction outputs.

AI Intern

Axis Software Company, Kathmandu, Nepal

January 2025 – April 2025

- Learned the fundamentals of AI system development, computer vision, OCR, NLP, semantic search, RAG, and backend integration.
- Practiced building AI workflows for document extraction, invoice detection, chatbot systems, and automation projects.
- Gained hands-on experience with YOLOv8, OCR tools, SentenceTransformers, FAISS, Flask APIs, and Django-based AI applications.

ACADEMIC PROJECTS

Predictive Water Level System

Major Project

- Developed a water level forecasting system using LSTM and BiLSTM models.
- Built a Django-based web application with a real-time dashboard for monitoring and prediction.
- Used PostgreSQL for data storage and TensorFlow for model development.

Technologies: Django, TensorFlow, PostgreSQL, Python, Machine Learning

Stock Price Prediction System

Research and UI Project

- Developed an interactive interface for stock price prediction and financial forecasting.
- Researched Temporal Fusion Transformers to explore improved forecasting accuracy.
- Evaluated model performance using MSE, MAE, and R^2 metrics.

Technologies: Python, TensorFlow, Machine Learning, Data Visualization

Restaurant Management Website

Minor Project

- Built a full-stack restaurant management system with authentication, admin panel, and email functionality.
- Developed backend features using Django and PostgreSQL.
- Created responsive frontend pages using Bootstrap.

Technologies: Django, PostgreSQL, Bootstrap, HTML, CSS

RESEARCH INTERESTS

- Artificial Intelligence and Machine Learning
- Computer Vision and OCR
- Natural Language Processing
- Retrieval-Augmented Generation
- Semantic Search Systems
- Intelligent Automation

ACHIEVEMENTS

- Secured Third Position in a College-Level Hackathon.
- Completed multiple applied AI projects involving computer vision, OCR, semantic search, chatbot development, and automation.
- Built practical AI systems integrating machine learning models with backend APIs and frontend dashboards.