

Subodh Ghimire

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Profile

AI/ML and backend developer focused on building real-world intelligent systems using computer vision, machine learning, and scalable web architectures. Experienced in developing IoT-based monitoring systems and full-stack applications through hackathons and academic projects.

Education

Bachelor of Science in Computer Science and Information Technology Madan Bhandari Memorial College Areas of Interest: AI, Machine Learning, Backend Development	2022 – Present Kathmandu, Nepal
Higher Secondary Education National School of Sciences (NIST) Areas of Interest: Mathematics, Computer Science, Problem Solving	2020 – 2022 Kathmandu, Nepal

Projects

CuraMind – Clinical Decision Support System <i>Python, Machine Learning, FastAPI, TypeScript</i> - Developed a machine learning-based system to predict disease risk using structured patient health data - Implemented classification models to generate risk scores, improving consistency of preliminary diagnosis support - Designed and deployed backend APIs using FastAPI for real-time prediction and data processing - Enabled doctors to interpret model-generated risk levels for faster and more informed clinical decision-making	2026
Facial Expression Detection System <i>Python, OpenCV, CNN, Flask</i> - Built a real-time facial recognition system using Convolutional Neural Networks for emotion classification - Used OpenCV for face detection and optimized image preprocessing pipeline for improved model input quality - Enhanced model performance through hyperparameter tuning and dataset refinement for better classification stability - Deployed the system via a Flask-based interface to enable interactive and accessible usage	2025
Rastriya License Portal (e-Government System) <i>TypeScript, PostgreSQL, Prisma, Docker, Next.js</i> - Developed a full-stack e-government platform for digitizing driving license application and management - Built a responsive frontend using Next.js with SSR for improved performance and user experience - Implemented secure authentication and role-based access for managing user and administrative operations - Designed and optimized relational database schema using PostgreSQL and Prisma with deployment via Docker	2025
Ecolog – Forest Fire & Intrusion Detection System <i>Python, Raspberry Pi, Azure, Flask</i> Winner – Tech Conclave 2024, BPC Hackfest (Technical Category) - Engineered a Raspberry Pi-based IOT system for real-time monitoring and threat detection in forest zones - Integrated Azure Custom Vision API for automated detection of smoke and fire with cloud-based data storage - Developed a real-time alert system with sensors, buzzer notifications, and a web-based monitoring dashboard	2024

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, C, C++
Frameworks: Next.js, Node.js, Flask, FastAPI
Databases: PostgreSQL, MySQL
Tools: Git, Docker, Postman, VS Code, PyCharm, Jupyter Notebook
Libraries: SQLAlchemy, Pydantic, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, OpenCV, PyTorch

Certifications

Supervised Machine Learning – DataCamp
Deep Learning with PyTorch – DataCamp
Master DSA with Python – Programiz

Achievements

Project EcoLog – Winner at Tech Conclave 2024 and BPC Hackfest 2024 (Technical Category)