

Pratik Giri

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PROFILE SUMMARY

Information Technology student specializing at the intersection of full-stack engineering and data science. Proven track record of building production web applications, optimizing spatial data pipelines, and developing AI/ML automation tools that eliminate manual workflows. Skilled in python framework, deploying, cloud databases, and predictive analytics to deliver scalable, end-to-end technical solutions.

EDUCATION

Bachelor of Science in Information Technology (BS.IT) Westcliff University, U.S.A. (Presidential Graduate School, Nepal)	2023 – Present
+2 Science Dhulabari Secondary School, Jhapa	2021 – 2023
Secondary Level Nepal Police School, Dharan	2018 – 2021

SKILLS & TOOLS

Core Skills	System Design • Data Science • AI/ML • Web Development • Research & Analysis
Programming	Python • JavaScript • Java • C • C++ • HTML • CSS
Tools	QGIS • VS Code • Git/GitHub • PyCharm • Google Colab • Hugging Face
Languages	Nepali (Native) • English (Proficient) • Hindi (Proficient)
Soft Skills	Work Under Pressure • Problem Solving • Communication • Integrity • Technical Leadership

PROFESSIONAL EXPERIENCE

Pathao Nepal Pvt. Ltd.	2025 – 2026
- Managed and maintained GIS datasets to ensure location accuracy across the Pathao platform, directly improving app reliability. - Collected and analyzed spatial data to support route expansion across 19+ areas in Bagmati Province, contributing to strategic city growth plans. - Conducted quality assurance on festival offers and crowdsourced route data to eliminate redundancy and reduce operational errors. - Coordinated communication and logistics for Food, Rides, and Marketing departments, including campaign push notifications and promotional code generation. - Reviewed spatial and routing data submitted by customers to inform product decisions and improve service delivery.	

KEY PROJECTS

QGIS Mergin Maps

- Proposed and led a field initiative to collect live GPS route data across Bagmati Province using the QGIS Mergin Maps plugin.
- Collaborated with teammates on fieldwork resulting in 19+ area routes successfully captured and submitted.

Pathao Roadmap Dashboard

- Designed and built a dynamic KPI dashboard for the roadmap team using Google Sheets, enabling real-time tracking of route additions, pending reviews, targets, and growth percentages.
- Provided the team with a centralized tool to monitor progress and make data-driven operational decisions.

Duplicate POI Checker

- Built a web-based dashboard to streamline a tedious POI verification process at Pathao Nepal, replacing manual script runs in VS Code.
- Integrated a Turso cloud database to auto-save session progress, allowing team members to pause, resume, and recover from network drops without starting over.
- Created a FastAPI backend with a custom VPN relay to safely search WAF-protected geolocation APIs and batch-process thousands of records.
- Saved significant manual effort, cut down on daily troubleshooting, and gave the team a fast, reliable tool with real-time progress stats and Excel export.

Weapon Threat Detection

- Developed a desktop and web-based monitoring system using OpenCV and Ultralytics YOLO to detect weapons across live webcam, mobile, and CCTV/RTSP streams.
- Built a FastAPI alert backend and Flask streaming app with SMTP integration to send instant email notifications and event snapshots upon threat detection.
- Integrated ngrok tunneling and QR-code pairing to support secure remote viewing and mobile video intake.
- Trained custom YOLO weights ([best.pt](#)) optimized for edge-case detection (achieving top performance on knife classes) and created a PyQt6 GUI for live control.

Asset Management App

- Built a wireframe and prototype template UI in Mockup for a course project to build a mobile app.
- Built a mobile asset management app using Expo, allowing users to instantly scan barcodes to retrieve asset details, purchase history, current owner, location, and maintenance logs.
- Designed the core data view to centralize critical lifecycle tracking, including service history, current status, and scrap dates.

Nekos APIs

- Built a TypeScript web app to experiment with consuming and normalizing data from multiple third-party REST APIs ([nekos.best](#) and [nekosapi](#)).

Openavaban

- Built a REST API and public gallery for uploading, managing, and serving user avatars and banners with tag-based search and file-type filtering.
- Built a high-capacity bulk upload feature capable of parsing CSV templates to process up to 100 images per request.
- Authored and published an open-source client SDK ([openavaban](#)) on PyPI, enabling developers to programmatically upload and manage assets with minimal setup.