

Shamy Budhathoki

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EDUCATION

Islington College <i>BSC (Hons) Computing, First Class Honours</i>	Kathmandu, Nepal 2023 – 2025
Little Angels College <i>Higher Secondary Education, Science (Biology)</i>	Nepal 2021

TECHNICAL SKILLS

Languages: Python, SQL, C#, Java, JavaScript
AI/ML & CV: TensorFlow, PyTorch, Scikit-learn, YOLO, OpenCV, MediaPipe
Web & Backend: Django, Flask, FastAPI, React, Blazor, Three.js, .NET, REST APIs
Data & Visualization: Pandas, NumPy, Matplotlib, Seaborn
Databases: MySQL, PostgreSQL, MongoDB, SQLite, Firebase
Tools & Platforms: Git, Docker, Postman, Vercel, Linux

PROJECTS

AsanaMitra <i>Python, TensorFlow, MediaPipe, OpenCV, Django, React</i> – Developed real-time yoga pose detection using body landmark extraction for accurate feedback. – Built and optimized deep learning models, achieving over 90% classification accuracy. – Integrated AI system with Django backend and React frontend for interactive user experience.	2024 – 2026
Driver Drowsiness Detection <i>Python, OpenCV, MediaPipe, pygame</i> – Created a real-time driver monitoring system detecting eye closure and yawning patterns. – Implemented deep learning models to trigger alerts, improving simulated driving safety. – Integrated webcam feed processing and notifications for immediate feedback.	2026
Car Price Prediction <i>Python, Pandas, Scikit-learn</i> – Built regression models predicting car prices with structured datasets. – Evaluated model performance using validation metrics like RMSE and R ² .	2026
Kharcha Tracker <i>C#, .NET, SQL</i> – Developed expense tracking system with database integration and reporting features. – Implemented CRUD operations and real-time data summaries for users.	2024
Gyan Ghar (Group Project) <i>C#, .NET, REST API, PostgreSQL</i> – Developed backend REST APIs for a book distribution platform used by multiple users. – Implemented authentication, database models, and team-based version control.	2024
Rental Equipment Management System <i>Python, Django, SQL</i> – Built equipment rental platform with inventory tracking and booking system. – Implemented REST APIs, authentication, role-based access, and admin controls.	2023

EXPERIENCE

Freelance AI Developer – Developed computer vision applications using TensorFlow, YOLO, and OpenCV for multiple clients. – Integrated AI models into full-stack web applications, improving functionality and performance. – Built and deployed REST APIs with cloud database integration.	2025 – Present
KITWOSD IT Support Centre – Developed Django and Python-based CMS systems and backend APIs. – Designed and maintained relational databases, ensuring 99% uptime. – Provided technical troubleshooting and system support for multiple client systems.	2021 – 2024