SAMARPAN PIYA

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EDUCATION

Asian College of Higher Studies — Ekantankuna, Lalitpur
Bachelor of Science in Computer Science and Information Technology (BSc CSIT) — Apr 2022 – Mar 2026
Percentage: 80.64%

Prasadi Academy — Manbhawan, Lalitpur
+2 N.E.B Science — 2019 – 2021
Cumulative GPA: 3.85

Little Angles' School — Hattiban, Lalitpur
S.E.E — 2019
Cumulative GPA: 3.85

WORK EXPERIENCE

Saral Apps Pvt. Ltd., Nepal — Buddhanagar, Kathmandu
Quality Assurance and AI R&D — Jun 2026 – Present
- Worked in software quality assurance (QA), including testing applications, identifying bugs, and validating features.
- Contributed to AI research and development, particularly involving LLMs, RAG, and AI-powered applications and automations.

Asian College of Higher Studies, Nepal — Jawalakhel, Lalitpur
Python Instructor — Jun 2026 – August 2026
- Conducted Python programming training from beginner to intermediate level.
- Covered core concepts, data structures, functions, and Object-Oriented Programming (OOP).
- Conducted hands-on coding sessions and guided students in problem-solving and debugging.

Rumsan Associates Pvt. Ltd., Nepal — Jhamsikhel, Lalitpur
AI/ML Intern — Dec 2024 – Mar 2025
- Researched AI models, frameworks, and industry trends
- Experimented with ML and DL techniques
- Supported in development of AI-powered solutions (chatbots, RAG systems)

Likee app — India
Data entry (remote) — Jul 2020 – Sept 2022
- Extracting and uploading data
- Documentation of the extracted and uploaded data

UNIVERSITY PROJECTS

Vehicle License Plate Detection System — Sept 2025
- Built a real-time vehicle license plate detection system using YOLO-based computer vision
- Designed an end-to-end pipeline integrating image preprocessing, object detection, and Nepali text extraction (OCR) for automated license plate recognition
- Developed with React frontend, Express backend, and FastAPI for model serving.

PDF based Retrieval-Augmented Generation (RAG) system — Mar 2025
- Built Retrieval-Augmented Generation (RAG) application to enable contextual question-answering over PDF documents
- Implemented document chunking, embedding generation, and vector similarity search to retrieve relevant context and improve response accuracy.
- Integrated LLMs using LangChain to generate coherent, context-aware answers from large unstructured documents.

ADDITIONAL

Technical Skills: Python, Java, Javascript, C, C++, C#, HTML/CSS
Libraries: Basics of Langchain, basics of scikit-learn, numpy, pandas
Languages: Fluent in English, Nepali
Certifications & Training: Python for everyone (Coursera), Python with Django (Mindrisers Institute of Technology), Programming with Java (TechAxis)