

Samir Pokharel

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SKILLS

Languages : Python, SQL (MySQL), C, C++, Java, Javascript (jQuery), HTML/CSS, pHp, TeX

Tools : Visual Studio, Zed Editor, JupyterLab, Git/GitHub, MATLAB, LaTeX

Technologies : Machine Learning, Computer Vision, Signal Analysis

PROJECTS

AI-Driven Subtitle Generation using Self-Supervised Learning

- Currently developing a specialized algorithm that can properly represent Nepali speech into respective Devnagari transcripts using self-supervised learning paradigm
- **Language:** Python

Comparative Study of Object Detection Models using Fast Fourier Transform (Ongoing)

- Modified AlexNet and InceptionV1 internally to implement fast-fourier transformation algorithms to boost their individual image detection and recognition for pneumonia detection among three classes.
- **Language:** Python

Zelda-Inspired RPG Game

- Developed a role-playing game inspired by the famous title The Legend of Zelda using pygame.
- **Language:** Python

Honorable Mentions

- **Online Shop System:** A simple shop/inventory system developed using C++
- **Waste Detection System:** An object detection model trained on images of different biodegradable and non-biodegradable wastes to detect and segregate them. Project developed as a team for Hackathon-2024

EXPERIENCE

Hamrobazaar Student Partnership Program

2023

Kathmandu

- A participation award for the seminar conducted by Hamrobazaar in Advanced College of Engineering and Management, Kathmandu

Aarambha 2024 PROTOBYTES (Hackathon)

2024

Kathmandu

- A participation award for joining the 36-hour hackathon conducted in Advanced College of Engineering and Management, Kathmandu

EDUCATION

Tribhuvan University	2022 - Present
<i>Bachelor in Computer Engineering</i>	Kathmandu
• Coursework: Data Structures, Data Mining, Databases, Machine Learning & A.I., Software Engineering	
Trinity Int'l College	2019 - 2022
<i>Science (Biology with Mathematics)</i>	Kathmandu