Ashal Upreti

Computer Engineer

Contact Information

Address: Kathmandu, Nepal

Phone: +977-9865480193

Email: upretiashal44@gmail.com

LinkedIn: https://www.linkedin.com/in/ashalupreti-033a0a218

GitHub: https://github.com/ashalupreti

Website: www.ashalupreti.com.np

Education

Bachelor of Computer Engineering

Purbanchal University, Khwopa Engineering College, Bhaktapur

Status: *Waiting for Results*

Higher Secondary School (+2)

Hetauda School of Management and Social Sciences, Hetauda

Graduated: 2019

Professional Summary

- Computer Engineer with expertise in AI/ML, web development, and backend technologies.
- Hands-on experience in developing machine learning models and integrating AI techniques for practical applications.
- Proficient in programming languages like Python, C/C++ and frameworks such as Flask and Django.
- Strong understanding of relational databases (MySQL, MSSQL) and web technologies (HTML, CSS, JavaScript).
- Adept at problem-solving, system design, and working with cross-functional teams to deliver high-quality solutions.
- Passionate about continuously improving my skills in AI, data science, and software development.

Professional Experience

Intern – Machine Learning Development
CodSoft Pvt Ltd (Remote), Kolkata, India
Jan 2024 – March 2024
- Developed and deployed machine learning models such as movie genre classification and handwritten text generation.
- Integrated machine learning algorithms into production systems.
- Collaborated with the team to enhance existing systems and improve model performance.

Flutter Developer
Ganesha Cloud Computing, Hetauda, Nepal
April 2024 – September 2024
- Designed and developed UI/UX features for mobile applications.

Home Tutor
Home Tuition Nepal, Kathmandu, Nepal
Jan 2023 – Nov 2023
- Taught Computer Science and Physics to Grade 11 students, helping them understand concepts and improve performance.

Projects

Virtual Assistant for Nepali Law
Description: Developed a chatbot using a fine-tuned LLaMA 3 model tailored for Nepali law, addressing queries related to criminal, administrative, and civil law.
Technologies: LLaMA 3 Model, Python, Flask

Nepali Speech Emotion Detection Using Transformer
Description: Created a speech emotion detection system for Nepali language using Transformer-based models like BERT. The project provides real-time emotion detection for human-computer interaction and mental health assessments.
Technologies: BERT, Speech Preprocessing, Python

Digital Agropod
Description: Developed an agricultural knowledge-sharing platform aimed at modernizing Nepal's agricultural sector and providing vital information to farmers.
Technologies: Bootstrap, MySQL, PHP, Google Sheets

Hospital Management System

Description: Developed a hospital management system in C/C++ to streamline hospital operations, reducing paperwork and managing hospital staff and patient details. Uses dat file for data storing.

Technologies: C, C++, VS Code

Certifications

- **Mathematics in the Street** – Nepal Mathematical Society (March 2023)
- **Hult Prize at Khwopa Engineering College** – Organizer & Speaker (March 2022)
- **Hult Prize at Purbanchal University** – Organizer (2022)

Skills

- **Programming Languages**: Python, C/C++, JavaScript, PHP
- **AI/ML**: LLaMA 3 Model, BERT, Machine Learning Algorithms
- **Frameworks**: Flask, Django, Flutter (Beginner)
- **Databases**: MySQL, MSSQL, MySQLi
- **Web Technologies**: HTML, CSS, JS, Bootstrap
- **Tools**: Git, GitHub, XAMPP
- **Version Control**: GitHub, GitLab
- **Other**: Blender, Wordpress

Languages

- **English** – Fluent
- **Hindi** – Fluent
- **Nepali** – Fluent