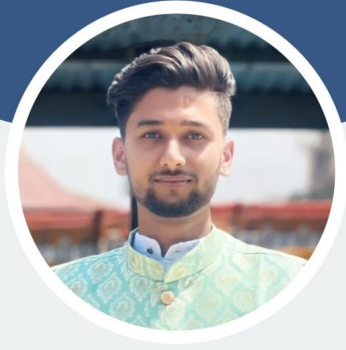


# Ashal Upreti

Computer Engineer



## Personal details



Ashal Upreti



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September 2, 2000



Male



Nepali



ashalupreti.com.np



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033a0a218



github.com/ashalupreti

## Skills

Artificial intelligence

C/ C++

Cloud Computing

Flutter

Databases

UI/UX design

Django

## Profile

A passionate and skilled computer engineering graduate with a strong foundation in web development and artificial intelligence. Experienced in building dynamic and user-friendly applications, particularly in social media and influencer platforms, utilizing technologies such as React JS, Bootstrap, and Node.js. Proficient in full-stack development. Adept at working with Python and its frameworks, including Django, Flask and FastAPI. Skilled in mobile app development using Flutter and knowledgeable in machine learning. Demonstrated ability to lead projects, collaborate with cross-functional teams, and deliver high-quality solutions. Currently working on a virtual assistant project for Nepali law, showcasing strong analytical and problem-solving skills.

## Education

### Bachelor's in Computer Engineering

Nov 2019 - Present

Purbanchal University / Khwopa Engineering College, Bhaktapur

### School Leaving Certificate

Jun 2017 - Aug 2019

Hetauda School of Management Secondary School, Hetauda  
3.08 GPA

### Secondary Education Examination

Apr 2016 - Jun 2017

Solidarity Int'l Academy, Hetauda  
3.20 GPA

## Projects

### Virtual Assistant for Nepali Law

- **Description:** Developed a chatbot using a fine-tuned LLaMA 3 model tailored to handle queries related to Nepali law. The system operates autonomously, providing responses based on trained data without involving legal experts. It addresses issues related to crime, administrative work, civil law, and child law, focusing on Nepal's constitutional law.
- **Technologies Used:** LLaMA 3 Model, Python, Flask

### Nepali Speech Emotion Detection Using Transformer

- **Description:** Developed a cutting-edge Speech Emotion Detection (SED) system tailored for the Nepali language, utilizing Transformer-based models like BERT. This project focused on enhancing the accuracy and effectiveness of detecting emotions in Nepali speech. It aimed to provide real-time emotion detection for various applications such as human-computer interaction and mental health assessments.
- **Technologies Used:** Transformer Models (BERT), Agile Development Methodology, Speech Preprocessing and Model Training Techniques.

### Digital AgroPod

- **Description:** Developed Digital AgroPod, an Integrated Agricultural Knowledge System aimed at digitizing and modernizing Nepal's agricultural sector. The platform connects farmers, shares critical agricultural information, and addresses common challenges through collaborative efforts.
- **Technologies Used:** Bootstrap, MySQL, PHP, Google Forms, Google Sheets, VS Code, XAMPP

Python

Flask

Flutter

Git & GitHub

JavaScript

Laravel

Machine learning

MERN

MSSQL

MongoDB

MySQL

Node.js

PHP

C/C++

Python

SQL

web development

Business Modeling

Chatbot Development

Large Language Model

Agile DevelopmentMethodology

Transformer Model

Leadership

Passionate

problem-solving skills

Communication

## Languages



### Hospital ManagementSystem

- **Description:** Developed a Hospital ManagementSystem in C and C++ aimed at reducing paperwork and streamlining hospital operations. The system manages hospital details, staff records, patient information, and more, with a user-friendly interface.
- **Technologies Used:** C, C++, Vs-Code

## Internships

### Machine learning systems designer

Aug 2024 - Sep 2024

Codsoft, Kolkata, West Bengal

Create a machine learning model like movie genre classification, Handwritten text generation.

## Employment

### Flutter Developer-Remote

Jun 2024 - Present

Ganesha Cloud Computing, Hetauda

Key Responsibilities: UI/UX design, System design.

### Home Tutor

Apr 2023 - Mar 2024

Home Tuition Nepal, Kathmandu, Nepal

Home Tutor for a Grade 11 student, Subjects Taught: Computer, physics.

## Certificates

### Mathematics in the Street

Mar 2023

Volunteered in the mathematics in the street program organized in Nepal by Nepal Mathematical Society held on March 12, 2023.

### Hult prize at khwopa engineering college

Mar 2022

Worked as an Organizing committee member, speaker, performer and take part in following exclusive session

- Entrepreneurship, Art of expression, Business Insights, Channeling Inner leadership, Business Modeling

### Hult Prize at Purbanchal University

Dec 2020

Worked as an organizing committee at Hult prize purbanchal University, Bhaktapur.

## Hobbies

- Hiking
- Photography
- Gym Workouts
- Traveling
- Programming and Technology