

Arya Dahal

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Summary

Computer Engineering student with strong interest in Artificial Intelligence, Machine Learning, and Generative AI. Experienced in developing mobile applications, backend systems, and AI-powered solutions using Python, Flutter, and deep learning frameworks. Passionate about building practical, scalable, and user-focused software systems through continuous learning and hands-on projects.

Education

Khwopa Secondary School 2020 – 2022

Higher Secondary (+2), Science
Bhaktapur

Nepal Engineering College 2022 – Present

Bachelor of Computer Engineering
Changunarayan, Bhaktapur

Technical Skills

Languages: C, C++, Python, JavaScript

Frameworks / Engines: Godot, Flask, React.js

Databases: MySQL, SQLite, Firebase

Tools: Git, GitHub, VS Code, LaTeX, Postman

Other: REST APIs, OOP, MVC Architecture

Soft Skills: Problem Solving, Leadership, Teamwork, Communication, Time Management, Adaptability, Critical Thinking

Projects

2D Multiplayer Shooting Game (Godot)

Tech: Godot Engine, GDScript, ENet

- Developed a real-time multiplayer 2D shooting game with synchronized movement, shooting, health system, scoreboard, lobby, map selection, and optimized network communication.

Pasale – Retail Analytics System

Tech: Flutter, FastAPI, MySQL, Python

- Built a bilingual retail management system with inventory and sales tracking, analytics dashboards, FastAPI backend, Flutter frontend, offline synchronization, and AI-based pricing insights.

StudyCord – Student Collaboration Platform

Tech: Flutter, Node.js, Firebase, REST APIs

- Developed a Discord-style collaboration platform with chat rooms, file sharing, AI note summarization, authentication, real-time messaging, and cloud storage integration.

AgroMindset – Plant Disease Detection System

Tech: Flutter (Dart), Python (Flask), TensorFlow/Keras, NumPy, REST API

- Created a plant disease detection mobile app using a Keras deep learning model, Flask API, image preprocessing, and Flutter-based real-time result visualization.

BhrastaBuster – Anonymous Corruption Reporting Platform

Tech: Flutter, Django, Python, Machine Learning

- Developed an anonymous reporting platform with multimedia support, ML-based credibility filtering, and Django backend for secure data management.

Hotel Management System – Desktop Application

Tech: Java, Swing, MySQL

- Built a Java-based desktop system for hotel administration with automated invoicing, guest records, room management, and database integration.

Leadership & Activities

Event Handling Lead, Computer Engineering Student Society (CoESS)

Nepal Engineering College

- Organized a 48-hour hackathon and led multiple technical workshops, coordinating with faculty, sponsors, and participants while managing logistics, scheduling, and team responsibilities for successful event execution.

Achievements & Certifications

- Winner in 3 hackathons and finalist/participant in 4 technical competitions.
- Python for Everybody Certification – Coursera.
- Actively participated in multiple technical workshops and collaborative learning programs.