

Alish Thapa

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EDUCATION

Samriddhi College , Tribhuvan Univeristy

Nov. 2019 - July 2024

Bachelors of Science in Computer Science and Information Technology

Bhaktapur, Nepal

- **Grade:** 77.38%, **Grade Scale:** 100
- **Coursework:** Artificial Intelligenece; Data Mining and Data warehousing; Computer Architecture; Data Structure and Algorithms; Computer Graphics; Software Engineering; Database Management System; C; C++; Microprocessor; Computer Network; Image Processing; System Analysis and Design; Software Engineering.

IELTS Scores: Overall 7.0 (Reading: 7.5, Speaking: 6.5, Writing: 6.0, Listening: 7.5)

EXPERIENCE

NSDevil

July 2024 - Present

Associate flutter developer

Kupondole, Nepal

- Led the end-to-end development of cross-platform applications like the **UBT**, **UBL**, **Word Annotation (WA)** and **Online UBL** apps, focusing on robust security and efficient state management (**Bloc**, **GetX**, **Stacked**).
- Diagnosed and fixed a critical video call crash on **Android 14**, enhancing application stability and reliability for users on the latest OS version.
- Successfully managed the full lifecycle of multiple apps, including deployment and ongoing maintenance on both the **App Store** and **Play Store**.

Emerge Infosys

Jan. 2023 - July 2024

Junior flutter developer

Banepa, Nepal

- Started the end-to-end development of a comprehensive **Restaurant Management System (RMS)** from scratch, creating a cohesive ecosystem that included a desktop admin application, a mobile app for waiters, and a real-time Kitchen Display System (KDS).
- Developed a live ordering system by implementing **WebSockets** for instant, bi-directional communication between the service floor, kitchen, and counter, drastically reducing order processing times.
- Developed and integrated core modules for **food, order, and seating management, and implemented hardware integration** for automated printing of kitchen order tickets (KOT) and customer receipts.

Emerge Infosys

Oct. 2022 - Dec. 2022

Intern flutter developer

Banepa, Nepal

- Actively contributed to the 'Xittoo Sewa' application by translating complex **Figma designs** into pixel-perfect, responsive UI components using Flutter.
- Gained practical experience in the full app development lifecycle by consuming REST APIs for data integration and developing foundational skills in Dart, debugging, and version control with Git.

Modern Boarding Higher Secondary School

Dec. 2021 - April 2024

Secondary level teacher

Bhaktapur, Nepal

- Designed and delivered engaging lessons on **programming fundamentals** and Science to secondary school students, breaking down complex technical concepts into accessible and understandable content.
- Fostered a positive learning environment that encouraged student curiosity and developed foundational skills in logical thinking and problem-solving.

Samriddhi College

Mentor

- Designed and led a comprehensive workshop on **Git and GitHub** for undergraduate freshers, covering version control fundamentals, collaborative workflows, and best practices for team-based projects.
- Served as a **technical mentor** during a hackathon, guiding undergraduate teams in and helping them build and present their projects under a tight deadline.

PROJECTS

Card Classifier using a Pre-trained Model

Implemented an end-to-end card classification system by leveraging **transfer learning** with a **pre-trained PyTorch** model. Engineered a **data pipeline** to process the **Kaggle Card image dataset**, which included splitting the data into training, validation, and test sets and applying crucial **image transformations** and augmentations with torchvision. Fine-tuned the model and implemented a python script capable of loading the fine-tuned model to accurately **classify card images**.

Insider Threat Detection System

To combat the growing risk of internal data breaches, this **dynamic web application** was built using a **Flask backend** to **proactively identify insider threats**. The system analyzes user activity logs, such as login times, off-hour access, and browser usage, etc. with a pre-trained machine learning model. It applies both the **Decision Tree** and **Random Forest** algorithms to **classify behavior**, presenting the results through a user-friendly interface to effectively flag potential risks.

Document Scanner and OCR App

Developed a cross-platform mobile document scanner using **Flutter** that performs real-time **Optical Character Recognition (OCR)**. The application integrates **Google's ML Kit Text Recognition** package to create a seamless user experience where the camera opens on launch, allowing for instant capture of any image containing text. The system then processes the image on-device to accurately extract and display the recognized text.

Forex Converter

Designed and Developed a cross-platform currency converter using **Flutter** that provides up-to-the-minute exchange rates by integrating a live **REST API**. The app's standout feature is its unique **multi-currency comparison view**, allowing users to seamlessly track a single base currency against a list of several others simultaneously. The entire application was designed with a strong focus on a clean and intuitive UI/UX to ensure a frictionless and user-friendly conversion experience.

Image Background Remover App

Developed a streamlined, cross-platform mobile application using **Flutter** designed for instant image background removal. The app features a simple interface for users to upload an image, which is then processed through a powerful third-party **REST API** for background segmentation. This integration provides a fast and automated solution, delivering a high-quality image with a transparent background back to the user in seconds.

AWARDS

25% Scholarship for 7th Semester

Awarded for securing **first position** in the college in the 6th-semester board examination.

CERTIFICATES

Python Basics	2025
Github Workflow & Actions with a flutter App	2024
AWS Academy Cloud Foundation	2024
Build Wireframe & Low-Fidelity Prototypes	2024
Getting Started With Flutter Development	2024
Car Transport App in figma	2024
UX Design in Process	2024
Foundations of User Experience (UX) Design	2024
Flutter Essential Training	2023
Foundations: Data, Data, Everywhere	2023
Intro to Career Skills in Data Analytics	2023
Learning Data Analytics: 1 Foundation	2023
AWS completion certificate	2023

SKILLS

Programming Language: Python, C, C++, Dart
Libraries and Framework: Pytorch, Flutter
Tools: VsCode, Jupyter Notebook, Android Studio
Others: AWS, Git, Github, LaTeX, Jira, REST API, PhotoShop, Figma

LEADERSHIP AND ACTIVITIES

- Samriddhi IT Club | Secretary (Past)**
- Coordinated the planning and execution of multiple **technical workshops** and programming events, creating a collaborative learning environment for over 50 members
 - Managed all official club communications, including meeting agendas and announcements, which led to a significant increase in member engagement and event participation.
 - Maintained meticulous records of all club activities, member information, and meeting minutes, ensuring smooth operational continuity and knowledge transfer.
- Leo Club of Bhaktapur Suryabinayak | Member (Past Board of Director)**
- As a past member of the Board of Directors, actively contributed to the **strategic planning** and successful execution of numerous high-impact community service projects.
 - Played a vital role in organizing critical initiatives, including **blood donation camps**, public **cleanliness drives**, and urgent **hunger relief programs** during the COVID-19 pandemic.
 - Assisted in coordinating various public outreach campaigns, such as **health and safety awareness programs** (e.g., mask distribution) and local **cultural events**.

REFERENCES

Mohan Bhandari

Computer Engineering, ICT Department
PhD scholar at Thammasat University
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Bikash Balami

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Department of Computer Science and Information Technology, TU
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