

Dristi Kafle

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PROFESSIONAL SUMMARY

Final-year computer science undergraduate with experience in mobile application development with Flutter and backend development using Django and Flask. Skilled in building interactive dashboards with Streamlit, performing data analysis and visualizations using Python libraries. Proficient in SQL and Firebase integration for database-driven applications. Strong problem-solver with a collaborative mindset and passion for creating effective, real-world solutions.

EDUCATION

2021 - present B.Sc. (Computer Science) at **Kathmandu University, Dhulikhel**
2018 - 2020 +2 (Science) at **St. Xavier's College, Maitighar**
2008 - 2018 SEE at **V.S.Niketan School, Minbhawan**

SKILLS

Programming Languages	C, C++, Python, Dart, Javascript
Libraries	Pandas, NumPy, Matplotlib, OpenCV, Firebase SDK
Frameworks	Django, Flask, Flutter, Streamlit
Developer Tools	Git, GitHub, VSCode
Soft Skills	Team Collaboration, Problem-Solving, Communication, Presentation, Adaptability, Creativity

PROJECTS

Fittosophy

[GitHub](#)

A cross-platform fitness companion app for personalized workout tracking and healthy habit management.

- Developed Flutter mobile app , featuring workout routines, step tracking, sleep and water intake monitoring, and BMI calculation.
- Developed Django backend with REST APIs and token-based authentication.
- Created web admin dashboard for exercise and workout management.
- Designed and managed a MySQL relational database through Django ORM for efficient data storage and retrieval.

Stack: Flutter, Django(Python), MySQL

Tixify

[GitHub](#)

A cross-platform ticketing platform for discovering, booking, and managing events such as movies, concerts, and sports matches.

- Developed Flutter mobile app, enabling users to browse events, select seats, and purchase tickets in real time.
- Built Next.js admin dashboard with Firebase integration for listings and notifications.
- Implemented Khalti payment gateway for secure ticket transactions.
- Designed QR-based ticket verification to streamline event entry and prevent double-booking.

Stack:Flutter, Next.js, Firebase

Exploratory Climate Dashboard

[GitHub](#)

An interactive web-based dashboard for exploratory analysis and visualization of meteorological datasets.

- Implemented data preprocessing, time-series analysis, and clustering features.
- Built Streamlit interface with plots, correlation maps and anomaly detection.
- Added GeoJSON-based choropleth maps for district-level insights.

Stack: Python, Streamlit, Pandas, NumPy, Scikit-learn, Plotly

Graph-Based Image Segmentation

[GitHub](#)

Implemented the Felzenszwalb and Huttenlocher algorithm for image segmentation and evaluation on benchmark datasets.

- Modeled images as pixel graphs and computed a Minimum Spanning Tree (MST) for region segmentation.
- Tuned threshold parameter(k) for granularity and evaluated segmentation quality using the Adjusted Rand Index (ARI) on the BSDS500 dataset
- Visualized labeled segments and analyzed runtime performance.

Stack: Python, OpenCV, NumPy, NetworkX, Matplotlib, SciPy, Scikit-learn

Sleep-Inn

[GitHub](#)

A full-stack hotel reservation platform for browsing hotels and booking rooms online.

- Built responsive React and CSS for dynamic navigation and hotel listings.
- Designed RESTful APIs with Node.js and Express.js to handle authentication, bookings, and hotel data.
- Implemented JWT and Google OAuth authentication with MongoDB data handling.
- Added filters for destination, dates, guest count, and email subscriptions for updates.

Stack: React.js, Node.js, Express.js, MongoDB

EXPERIENCE

2025 AI Education Innovation Boot Camp and Hackathon

- Built a functional MVP of the project **AI Customized Learning Recommendation Chat bot** [GitHub](#)
- Stack: HTML, CSS, JavaScript, Python, Flask, Langchain

INTERESTS

Languages Nepali(native), English(fluent), Hindi(conversational)

Interests Hiking, Music, Fiction Literature, Film