

Bikram Chapagain

Computer Engineering Undergraduate — Data Analysis & Image Processing Enthusiast
Syangja, Nepal

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BIO

Motivated Computer Engineering undergraduate with hands-on experience in web-based systems, data analysis, and image processing. Skilled in Python, machine learning, and problem-solving, with a strong interest in applying technical knowledge to real-world projects and internships. Eager to contribute to innovative solutions in data science and image analysis.

Skills

- **Data & AI:** Machine Learning, Data Analysis, Image Processing
- **Programming:** Python, SQL, JavaScript, HTML/CSS, LaTeX
- **Frameworks/Libraries:** Pandas, NumPy, Scikit-learn, OpenCV, Flask, TensorFlow
- **Tools:** VS Code, MySQL, Git/GitHub
- **Soft Skills:** Problem-Solving, Analytical Thinking, Team Collaboration, Communication

Education

Bachelor of Computer Engineering (Undergraduate) 2022–2026
NAST, Dhangadi, Nepal

Currently pursuing a four-year program focused on computing systems, programming, data analysis, and image processing. Gained practical experience in developing web-based applications, conducting data-driven projects, and implementing algorithms for real-world problems. Actively involved in collaborative projects, enhancing teamwork, research, and problem-solving skills.

Higher Secondary Education (+2 Science) 2020–2022
Step By Step Secondary School, Pokhara, Nepal

Completed rigorous coursework in mathematics, physics, and chemistry, building a strong analytical and problem-solving foundation. Developed an interest in technology, coding, and data analysis during this period.

Projects

CNN-Based Fruit Image Classification Using Fruits-360 Dataset 2026

- Developed a Convolutional Neural Network (CNN) using TensorFlow.
- Trained and validated the model on the Fruits-360 dataset with data augmentation.
- Achieved high classification accuracy across multiple fruit categories.
- Evaluated model performance using accuracy/loss curves and confusion matrix.

House Price Prediction (Nepal Context) 2025

- Built machine learning models using Linear Regression and Random Forest.
- Performed data cleaning, feature engineering, and exploratory data analysis.
- Applied cross-validation for model evaluation.
- Compared model performance using evaluation metrics such as MAE, MSE, and R^2 score.

Student Performance Analysis

2025

- Analyzed historical student datasets to predict academic performance.
- Conducted preprocessing and feature selection.
- Applied machine learning techniques for predictive analysis.

Web-based Attendance Management System (Manual)

2024

- Developed a Python and MySQL-based web application to manage attendance records.
- Implemented manual entry/exit tracking with automatic duration calculation.
- Designed an administrative dashboard for monitoring and reporting.
- Implemented secure login authentication for admin access and data protection.

Languages

- Nepali (Native)
- Hindi (Fluent)
- English (Fluent)
- German (A1)

References

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Mr. Kapil Dev Pant

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