



## CONTACT



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Nilkantha-8 Dhading ,  
Nepal

## EDUCATION

### SEE

Nilkantha Secondary School /  
Dhading

### +2

Viswa Niketan Secondary  
School / Kathmandu / April,  
2022 - February, 2024

### BE

Pulchowk Engineering College /  
Lalitpur / April, 2024 - Present

## SKILLS

- Data Analysis - Skillful
- Data Science, Deep Learning  
and Machine Learning -  
Skillful
- Data Visualization  
Matplotlib, Seaborn - Skillful
- Public Speaking

## LANGUAGE

English	● ● ● ● ●
Nepali	● ● ● ● ●
Hindi	● ● ● ● ○

# Roshan Koirala

I am a passionate Data Science and Machine Learning enthusiast at Pulchowk Engineering College, with hands-on experience in Python programming, data analysis, and predictive modeling. I've worked on projects like Nepal Premier League data analysis and sentiment analysis of Nepali tweets.

As a Public Speech Competition winner and Python workshop mentor, I enjoy both technical and communication challenges. I also secured 1st runner-up in the Dataverse competition. Eager to learn and solve real-world problems, I aim to pursue a career as a data scientist.

## ACHIEVEMENTS

### 1st Runner-Up, Dataverse Competition (Data Visualization & Model Prediction)

- Achieved 1st Runner-Up as a solo participant in a duo-based Dataverse Competition, competing against teams of two.
- Developed a machine learning model and data visualizations single-handedly, showcasing expertise in predictive analytics and data storytelling.

### Python Workshop Instructor

Taught Python programming to a group of students, covering basics to intermediate concepts.

### Public Speaking Champion

Won 1st place in Pulchowk Engineering College Public Speaking Competition, demonstrating strong communication and persuasive skills.

## AWARDS

### 1st Runner-Up, Dataverse Competition (Data Visualization & Model Prediction)

Pulchowk Engineering College / 2024 / Patan, Nepal, Nepal

- Secured 1st runner-up position in a duo-based competition, where I participated solo, demonstrating strong skills in data visualization and predictive modeling.

## PROJECTS

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### **A Gesture-Controlled Digital Canvas**

Gesture-Based Drawing Application Developed an interactive computer vision project using Python and OpenCV that enables real-time hand gesture-controlled drawing, shape manipulation, and geometric transformations. Implemented advanced graphics algorithms and efficient state management system.

<https://github.com/RoshannCodes/FINGER-ARTISTRY-CANVAS>

### **Data Analysis & Web Scraping: Nepal Premier League Insights**

- Conducted end-to-end data scraping of Nepal Premier League statistics using Python libraries such as BeautifulSoup and Selenium, ensuring accurate and structured data collection.
- Performed in-depth data analysis, including player performance metrics, team statistics, and match outcomes, to uncover actionable insights and trends.
- Visualized key findings using tools like Matplotlib, Seaborn, and Tableau, creating interactive dashboards for easy interpretation.
- Delivered a comprehensive report highlighting strategic recommendations for team performance improvement and fan engagement strategies.
- Demonstrated expertise in data cleaning, transformation, and analysis, showcasing strong problem-solving and analytical skills.

<https://github.com/RoshannCodes/NEPAL-PREMIER-LEAGUE-DATA-SCRAPPING-AND-ANALYSIS>

### **Ludo Game Development in C++ (Object-Oriented Programming Project)**

- Designed and implemented a console-based Ludo game in C++ using OOP principles (encapsulation, inheritance, polymorphism).
- Developed game logic for player movement, win conditions, and error handling, ensuring smooth gameplay.
- Utilized data structures and algorithms to manage game state and optimize performance.
- Demonstrated strong debugging and problem-solving skills to resolve complex edge cases.

<https://github.com/RoshannCodes/LUDO-CPP-PROJECT>

### **Sentiment Analysis of Nepali Tweets Using NLP**

Developed a sentiment analysis model for Nepali-language tweets to classify them as positive, negative, or neutral. Collected and preprocessed Twitter data using web scraping and NLP techniques such as tokenization, stopword removal, and stemming. Leveraged machine learning algorithms like

Naïve Bayes, Logistic Regression, and deep learning models (LSTMs, BERT) to build and optimize sentiment classifiers. Evaluated model performance using accuracy, precision, recall, and F1-score, and visualized sentiment trends using Matplotlib and Seaborn.