

Sarina Shakya

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SUMMARY

- Built interactive software systems using **Python**, **OpenCV**, and structured programming principles, demonstrating the ability to design maintainable and efficient code through projects like the Virtual Painting System.
- Developed end-to-end deep-learning pipelines using **TensorFlow** and **CNN/LSTM architectures**, reflecting strong understanding of algorithms, data preprocessing, and model evaluation through the Captionary project.
- Collaborated in projects through clear communication, organized task management, and structured workflows, supporting reliable project delivery within expected timelines.

EDUCATION

Bachelor of Computer Engineering | *Lalitpur Engineering College, Chakupat*
Education (+2 Science) | *Omega College, Kumariapati* | (GPA 3.57)
SEE | *Horizon English School, Dhapagal* | (GPA 3.65)

2022 – Present
2020 – 2021
2005 – 2019

PROJECTS | [\(Link to Full Projects\)](#)

- **Virtual Painting System using Finger Gesture Detection and Recognition** | [\(Link to Project\)](#)
Relevant Skills: Python, OpenCV, Numpy
 - Developed an interactive computer-vision system that allows users to draw in the air by tracking hand and finger gestures captured in real time through a webcam, demonstrating proficiency in Python, OpenCV, and real-time image processing techniques.
- **Captionary: Generating Image Descriptions with ResNet and LSTM** | [\(Link to Project\)](#)
Relevant Skills: Python, CNN, LSTM, Deep Learning, ML Optimization, TensorFlow
 - Designed and implemented a deep-learning model that automatically generates descriptive captions for images by combining CNNs for feature extraction and LSTM networks for sequence prediction, demonstrating proficiency in Python, TensorFlow, and data preprocessing for machine learning.

SKILLS

- **Programming:** C, C++, Python
- **Web Development:** HTML, CSS, JavaScript
- **Database:** MySQL
- **Tools:** VS Code, GitHub
- **Soft Skills:** Communication, Teamwork, Problem Solving

HOBBIES

- Reading
- Dancing
- Listening to Music
- Travelling
- Drawing