

SANDESH SHRESTHA

TECH ENTHUSIAST

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SUMMARY

Motivated and adaptable team player with a strong foundation in computer science, enabling quick learning and effective problem-solving. Tech-agnostic, experience across diverse programming languages and capable of delivering high-quality results in any tech stack stemming from the strong foundations

PROFESSIONAL EXPERIENCE

Project Support Associate, Digischool Global Pvt.Ltd Jul, 2023 - Apr, 2025

- Supported the successful implementation of NCC UK-certified Computing Courses.
- Provided teacher training to ensure effective course delivery and curriculum alignment with UK standards.
- Organized and facilitated hands-on workshops and awareness sessions for students on emerging technologies, including Internet of Things (IoT), Artificial Intelligence (AI), Cybersecurity and many more.

PROJECTS

Web-based data visualization on product details and sentiment analysis on reviews with a fine-tuned large language model Dec 12, 2024

Developed a Django and Streamlit-based application for product review analysis, sentiment detection, text summarization, and AI-powered chatbot interactions. It leverages **Gemini-7B, TextBlob, LLAMA-8B (Groq API), and FAISS with Google Embeddings** for efficient search and insights.

<https://github.com/Sundess/capstone-project>

Ghar-Tution Feb 13, 2025

Developed Ghar Tution, a PHP and SQL-based web app connecting parents and tutors in Nepal. The platform allows parents to create and post tuition requests, which are approved by the admin. Teachers apply for the posts, and the admin selects the best tutor based on the applicants' profiles.

<https://github.com/Sundess/Ghar-Tution>

Mental Health Data Analysis and Predictive Modeling Mar 4, 2024

Conducted an in-depth analysis of Nepal's Mental Health Problems Dataset (2011–2014) to identify trends and key factors influencing mental health. Performed data cleaning, visualization, and applied machine learning algorithms including Random Forest, Decision Tree, and Multi-Linear Regression for predictive modeling. Achieved 77.88% accuracy with Random Forest and 77% with Decision Tree, demonstrating their effectiveness in uncovering meaningful patterns. The project offered valuable insights to support data-driven mental health strategies and interventions in Nepal.

<https://github.com/Sundess/Nepal-mental-health>

Livestock and Commodities Production Analysis in Nepal Feb 16, 2024

Performed an analysis of key factors influencing livestock and commodity production in Nepal, with a strong focus on data preprocessing, cleaning, and visualization to uncover meaningful insights. Leveraged geo plots and spatial mapping techniques to highlight regional trends and production patterns across the country. Developed predictive models to forecast outputs such as chicken meat and buffalo meat production, achieving high accuracy and validating the impact of thorough preprocessing and visualization in enhancing model performance. The project emphasized the importance of data-driven approaches in supporting agricultural planning and resource allocation.

<https://github.com/Sundess/Nepal-livestock-commodities>

SKILLS

Python	My SQL	HTML/ CSS & JS	Django
Git	Docker	MongoDB	Machine Learning

EDUCATION

Sep 2019 - Sep 2023

Bachelor of Computer Science
IIMS College (Affiliated to Taylor’s University)

CERTIFICATIONS

DevOps Workshop, IIMS College https://github.com/Sundess/Certificates-/blob/main/Training-Devops.pdf	Mar, 2025
Data Analysis with Python, freeCodeCamp https://www.freecodecamp.org/certification/Sundess/data-analysis-with-python-v7	Dec, 2024
Developing Back-End Apps with Node.js and Express, IBM https://www.coursera.org/account/accomplishments/certificate/PFX5JCM9E37M	Apr, 2024
Version Control, Meta https://www.coursera.org/account/accomplishments/certificate/VPUGZC2ELD27	Apr, 2024

PUBLICATION & INVOLVEMENTS

Nepali Transformers@NLU of Devanagari Script Languages 2025: Detection of Language, Hate Speech, and Targets Publication: Proceedings of CHiPSAL 2025, Abu Dhabi, UAE Role: Co-Author https://aclanthology.org/2025.chipsal-1.36.pdf	Jan, 2024
Research Member MANTRA Lab (Multimodality and Neural Text Representation Analysis Lab), IIMS College Conducted research in Natural Language Processing (NLP) and contributed to the data annotation process.	Aug, 2024

ADDITIONAL INFORMATION

- **Languages:** English, Nepali.
- **Volunteering:** Event Lead- DigiVerse: Student Edition (2024) | Organizing Committee - Digital Yatra (2024) | Volunteer - 3rd PABSON Conference | Volunteer - TechX (2024)