Chhimi Tashi Sherpa

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Github | LinkedIn

Education

Westminster University (07/2021 - 05/2025) | **Computer Science**, **Data Science** | GPA:3.9

Work Experience

Web developer Intern— Westminster University, Marketing and Communications (**08/01/2024-5/11/2025)**

- Wrote and edited **HTML**, **JavaScript**, **CSS Bootstrap** and **XSL**
- Collaborated with team members to diagnose and fix website issues, improving team communication and problem-solving skills.
- Utilized **GA4** to collect and analyze website data, creating visualizations of page visits, user flows, and search performance, which improved decision-making for website optimization.

Computer Science Research Intern — Great Salt Lake Institute (**5/1/2023-1/1/2024**)

- Trained a Neural Network using **Python** and **YOLO** to recognize pelican beaks and horns, performing statistical analysis and data visualization using **R** to derive insights.
- Presented research on measuring pelican beaks at Salt Lake Community College and Geek Fest, showcasing the practical applications of AI tools in wildlife research to a diverse audience gaining further funding for the project.

Resident Assistant — Westminster University (**7/5/2022 - Current)**

- Led a community of over a hundred residents during my three years as an RA and created an environment of support and growth by organizing community events and activities. Improved communication among residents.*Discrete Math Grader — Westminster University* (07/01/2022 – 07/01/2023)
- Ensured accuracy and attention to detail while grading assignments.

Gear Up Math and Computer Science mentor — Utah Valley University (**02/22/2025 - current)**

- Helped students Learn computer science and math, improving highschool graduation rates.

Projects

- **Captcha Hacking with AI**: Bot capable of bypassing Google's reCAPTCHA, aimed at evaluating the effectiveness of traditional web security methods using **Selenium** and **GPT-vision**.
- **AI Powered Web Scraper and analysis**: Combined Selenium with the **Gemini AI API**,using Python to scrape over 1000 job postings for statistical analysis using R. Used Excel to clean up data and used Powerpoint for a presentation at the student showcase.
- **Customer Ratings Analysis:** Developed a predictive model to understand the impact of pricing and other factors on overall business ratings for local businesses, using Google Places API for data collection through Google reviews and R for analysis.
- **Travile App**: Developed "Travel With" which is a mobile app that connects tourists with trekking guides in Nepal, creating a centralized platform where guides can advertise themselves and travelers can search, filter, and book guides.
- **Website for Utah Debate Association:** Collaborated in a team project to create a new website using django , implementing a custom backend with **SQLite database** for admin functions.

Acknowledgements and Achievements

- Received the **data science student of the year** 2025.
- Research paper "Tracking variation in horn sizes of Pelicans using Deep Learning Techniques" was accepted into **IETC conference and published in the IEEE digital library**.

Skills

- *Proficiency in Python, R, and statistical analysis, SQL.*
- *Experience with data visualization tools and methodologies.*
- *Familiarity with C++, JavaScript, Scala, Java, Excel, Word and Git.*
- *Knowledge of Agile software development methodologies.*
- *Ability to work independently and collaboratively in team environments.*
- *Finding innovative use cases for new technologies like AI.*
- *Strong problem-solving skills and attention to detail*
- *Highly motivated with the ability to multitask.*