Asta Shakti Suman Sharma

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Education

The College of Idaho	*Expected Jan 2026*

BS in Computer Science
Minors: Psychology, Literature and Creative Writing | *Specialization:* Data Science

Technical Skills

Languages: Python, R, SQL, HTML, CSS (Tailwind), JavaScript

Data Analysis and Visualization: Excel, Power Query, Realtional Database, Data Modeling, LaTeX, Numpy, Pandas

Machine Learning: Regression (Linear & Logistics), Classification, Tidymodels, Tidyverse, Decision Trees

APIs and Web Technologies: RestAPI, FastAPI, JSON, Python Automation, JSON/CSV Data Handling

Development Tools: Git, Github, Jupyter Notebook

Soft Skills: Problem-solving, Attention to Detail, Collaboration, Adaptability, Time Management

Experience

Product Management Data Intern	*Boise, ID*
Western Power Sports (WPS)	*June 2025 - Aug 2025*

- Analyzed 300,000+ product records using R and Python to identify data gaps to guide targeted audits.
- Evaluated 800+ hierarchical classifications, reducing miscellaneous categories by 70–80% and improving search user experience.
- Created a standardized SOP for attribute association and developed a visual product hierarchy tree that helped reduce misclassifications by 68%.
- Collaborated across segments to validate my findings and support strategic planning initiatives.

Astrophysics Research Assistant Intern	*Caldwell, ID*
Murdock @ The College of Idaho	*May 2024 – May 2025*

- Developed Python-based automation scripts that reduced manual data processing time by 40%.
- Enhanced wavelength calibration algorithms, improving the accuracy of stellar radial velocity computations by 70%.
- Worked with large datasets to develop and test software tools for the KOSMOS Image Reduction pipeline.
- Presented findings at academic conferences and collaborated with cross-functional research teams

Campus Safety Office Coordinator	*Caldwell, ID*
The College of Idaho	*Aug 2023 – Present*

- Adapted to fast-paced, high-pressure situations while managing office operations and supporting emergency response.
- Ensured accurate reporting and coordination with strong attention to detail and commitment to community safety.

Projects

AI Librarian	*In Progress*

Python, FastAPI, PostgreSQL, React

- Building a full-stack AI-powered book recommendation and personal reading tracker system.
- Implementing a REST API backend with PostgreSQL for scalable data storage.
- Building an interactive UI for book tracking and personalized recommendations.

To-Do List Tracker

Python, Fast HTML, SQLite

- Built a lightweight task management application for organizing daily tasks.
- Integrated SQLite database storage for persistent data management.
- Designed a Fast HTML-based UI for efficient and fast rendering.

Leadership & Certification:

Honors in Intro to Web Development, CodePath *Nov 2024*