Simran Shrestha

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OBJECTIVE

Senior CS undergraduate passionate about data and software development. Seeking opportunities to apply technical expertise and contribute to impactful projects in collaborative, tech-driven environments.

EDUCATION

Northern Kentucky University – Highland Heights, KY   **May 2026**

Bachelor's in computer science | Minor in Data Science | GPA 3.69

PROJECTS

NKU AI chatbot   **May 2024–July 2024**

- Designed a chatbot for NKU using Python, Beautiful Soup, the GPT-2 model, and the Jina API to provide accurate and prompt answers to NKU related queries, ensuring a personalized experience for website visitors.
- Collected and preprocessed 1,611 data samples from NKU's website, converted them to text files, cleaned data, and finetuned model. The response accuracy by the model was 10%-15% better than ChatGPT.

EXPERIENCE

Data Automation Intern | Great American Insurance Group   **September 2025-Current**

- Developed an integration testing system for an Informatica CI/CD pipeline, creating a scalable framework that enabled early issue detection and improved productivity.
- Accelerated the deployment of FastAPI applications by building a centralised repository following team best practises, which drove rapid adoption and ensured consistent, high-quality development standards across the team. This initiative improved onboarding speed and reduced errors in new deployments.
- Enhanced developer experience by documenting an previously undocumented repository, including step-by-step environment setup, local testing procedures, and contribution guidelines.
- Analyzed outdated copilot instructions and produced a comprehensive set of guidelines for copilot using best practices from within the organization and the development community.

Data Engineer Intern | Great American Insurance Group   **May 2025-August2024**

- Worked with Informatica cloud integration tools (IDMC) to assist with defects on balancing reports contributing to improved data quality and reporting reliability for month end reports.
- Leveraged SQL, Informatica and Snowflake to query and validate data ensuring accuracy of financial reports
- Authored clear documentation for Informatica jobs, streamlining knowledge transfer and enabling support teams to quickly understand Informatica jobs without extensive mappings analysis.
- Created and maintained SharePoint Modern sites, increasing the visibility and discoverability of processes, standard operating procedures and documentation.

Teaching Assistance | Course: Introduction to Python   **August 2023 –Dec 2023**

- Empowered 22 students by teaching coding problems, maintaining weekly office hours, conducting problem-solving sessions and tutoring under the professor's tutelage.
- Created live coding sessions for students to assist them to develop the mindset behind approaching a programming problem and helping them with their doubts.

SKILLS AND TOOLS

Python | R | SQL | Java | Git | GitHub Actions | Docker | Microsoft 365 | Snowflake | Informatica

LEADERSHIP & AFFILIATIONS

Secretary | NKU Bhakti Yoga Club   **Spring   2022-Current**
NKU AI Bootcamp | Volunteer | Northern Kentucky University   **Summer 2024**