

Aaditya Khanal

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EDUCATION

NORTHERN KENTUCKY UNIVERSITY

Bachelor of Science, Data Science (Minor: Applied Statistics)

Highland Heights, KY

May 2026

- GPA 3.60 | Executive and Edge Award (Merit Scholarship: \$10,000)

WORK EXPERIENCE

Headstarter AI

Software Engineering Fellowship

Highland Heights, KY

July 2024 – Present

- Built 5+ AI Projects: Pantry Tracker, AI customer support, AI Flashcard and Stripe, AI Rate my Professor.
- Developed a web application using React.js and Next.js, integrating OpenAI's API, Stripe API, secure user authentication, and implementing Retrieval-Augmented Generation (RAG) using AWS, with the goal of scaling to over 1000 users.

North American Steels

Data Analyst

Highland Heights, KY

August 2023 – November 2023

- Utilized Python, PostgreSQL, JavaScript, React, and Node.js for data processing and web interface development.
- Enhanced decision-making and operational strategies by cleaning and consolidating 7 large manufacturing datasets.

Human Computer Interaction Lab at NKU

Student Researcher

Highland Heights, KY

December 2023 – present

- Conducted comprehensive data analysis on a complex auction dataset using Python, R, SQL Server, and JavaScript.
- Analyzed human behavioral patterns and published findings at the MiPro 47th IEEE ICT and Electronics Convention in Croatia. Additionally, presented research at various events, including Poster at Capitol and NKU Research Celebration.

SKILLS

- **Languages:** Python, R, Java, JavaScript, SQL
- **Database:** SQL Server, PostgreSQL, MySQL, Firebase,
- **Tools:** Pandas, NumPy, Matplotlib, Scikit learn, Excel, Power BI, React.js, Tailwind, Bootstrap, Git, Hugging Face, Copilot, Postman, RAG, OpenAI, Rest API, Azure, Oracle Cloud Infrastructure, AWS

PROJECTS

Khutruke AI (Python, React/Redux Toolkit, Tailwind, Flask)

April 2024

- Built a MERN stack web app utilizing OpenAI's GPT-4 API for personalized financial advice.

Unlocking the Game: Cincinnati Reds Game Data Analysis (R, Jupyter Notebook)

May 2024

- Performed statistical analysis on factors influencing Cincinnati Reds baseball games while conducting hypothesis testing and modeling to explore game outcomes.

Movie Recommendation Engine (Python, Pandas, Matplotlib)

December 2023

- Developed a movie recommendation system using collaborative filtering algorithms based on user preferences & ratings.

LEADERSHIP EXPERIENCE

Northern Kentucky University, College of Informatics Ambassadors

Vice President

Highland Heights, KY

May 2024 – present

- Built leadership and communication skills through planning events and organizing informative seminars.
- Fostered clear communication and effective leadership through on-campus events.

Northern Kentucky University, First Year Peer Coach

Peer Coach / STEM Mentor

Highland Heights, KY

May 2024 – present

- Mentored first-year students by providing academic counselling and tutoring for challenging courses.
- Helped exploratory students navigate challenges, set goals, and utilize campus resources.

AWARDS/ CERTIFICATIONS

Fidelity Hackathon, 1st Position

April 2024

Microsoft Azure AI Fundamentals Certification

June 2024

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional

July 2024