

Aaditya Khanal

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EDUCATION

NORTHERN KENTUCKY UNIVERSITY

Bachelor of Science, Data Science with Business Information System | Minor: Applied Statistics

Highland Heights, KY

August 2022 - May 2026

- GPA 3.80 | Executive and Edge Award | Dean's List 5/ 6 semesters

WORK EXPERIENCE

Beats By Dre

Consumer Insights Data Analyst

Remote

September 2024 - October 2024

- Utilized Python libraries such as pandas, NumPy, scikit-learn, Seaborn, and NLTK for efficient data cleaning, processing, of 1000 reviews each from 10 different headphone products.
- Implemented product sentiment analysis and Gemini AI to extract actionable insights and enhance operational strategies.

Headstarter AI

Software Engineering Fellowship

Remote

July 2024 - August 2024

- 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.

Human Computer Interaction Lab at NKU

Student Researcher

Highland Heights, KY

December 2023 - July 2024

- 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, Swift
- **Database:** SQL Server, PostgreSQL, MySQL, Firebase, Relational Database, MongoDB Compass/ Atlas
- **Tools:** Pandas, NumPy, Pandas, Matplotlib, Scikit learn, Power BI, React.js, PyTorch, TensorFlow, Tailwind, Bootstrap, Git, Hugging Face, Copilot, Postman, RAG, OpenAI, Rest API, Azure, Oracle Cloud Infrastructure, AWS, API, Xcode

PROJECTS

Personalized Recommender (Jupyter Notebook, Pandas, Scikit-Learn, Flask, Next.js, Streamlit, AWS, PyTorch) January 2025

- Engineered AI-based personal finance advisor using bank statements, achieving 15% increase in savings and 20% improvement in budgeting from data of 2 and half years.

Modern SAP (Python, Next.js, MongoDB, PropelAuth, Azure)

May 2024

- Created an AI-powered SAP system with a modern UI, featuring invoice scanning, an insights dashboard, and fraud detection, using multiple Azure services which focused on cloud-based security.

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

April 2024

- Built a MERN stack web app with chatbot like UI utilizing OpenAI's GPT-4 API for personalized financial suggestions.

LEADERSHIP EXPERIENCE

Northern Kentucky University, College of Informatics Ambassadors

Highland Heights, KY

Vice President

May 2024 - present

- Built leadership and communication skills through planning events and organizing informative seminars.
- Fostered clear communication and effective leadership through 20+ on-campus events.

Northern Kentucky University, Data Science Club

Highland Heights, KY

Vice President

May 2024 - present

- Co-founded Data Science Club, organizing virtual hackathon with 100+ participants and securing industry speaker from AT&T
- Represented NKU at University of Cincinnati's Data Science Symposium, developed student project showcase platform, and mentored peers in STEM initiatives.

AWARDS/CERTIFICATION

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional

July 2024

Microsoft Azure AI Fundamentals Certification

June 2024

Fidelity Hackathon, 1st Position

April 2024