Gaurab Baral

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EDUCATION

Northern Kentucky University Highland Heights, KY
Undergraduate in Data Science, Minoring in Statistics and Biological Science *Aug. 2022 – Present*
- **Relevant Courses:** Calculus, Advanced Statistics, Data Mining in Python, Data Cleaning and Visualization, Regression Analysis, Artificial Intelligence, Statistical Computing
- **Awards/Honors:** L.I.F.E Fellowship, International Merit Scholarship, President's Honor List, EDGE Award
- **Organizations:** Data Science Club, COI Ambassadors, STEM Peer Mentor, Tutoring Center

EXPERIENCE

Undergraduate Research Fellow May 2023 – Present
Northern Kentucky University *Highland Heights, KY*
- Working on several research projects like Movie Recommendation System, House price Regression, CNN and Artificial Intelligence Job Market Analysis
- Shared findings at Poster at Capitol academic symposiums and Heather Bullen research celebration event

Teaching Assistant Jan. 2023 – Present
College of Informatics - Northern Kentucky University *Highland Heights, KY*
- Assisted with INF120: Introductory Python Programming for the fall of 2023, supporting a class of 32 students by providing tutoring, grading assignments, and facilitating lab sessions
- Supported DSC101: Introductory Data Science for the fall of 2024, aiding 26 students by helping with coursework, conducting review sessions, and grading exams

Professor Search Committee Nov 2023 – March 2024
College of Informatics - Northern Kentucky University *Highland Heights, KY*
- Served as the Student Representative on the Professor Search Committee responsible for searching candidates for the roles of Assistant Professor in Computer Science and Assistant Professor in Software Engineering
- Reviewed resume of 63 applicants and helped in interviewing 27 candidates, contributing to the selection process and providing feedback
- Lead One on One Tour sessions for the 5 selected candidates around the campus

PROJECTS

FidelityxOpenAI Finance Bot | *Python, MERN, Redux, TensorFlow*
- 1st position in Hackathon organized by Fidelity
- Utilized OpenAI's GPT-4 for personalized financial advice, learning and evolving from user interactions
- Recommended relevant Fidelity YouTube videos, enhancing user experience and supporting marketing strategies

Driver Drowsiness Detection | *Python, Streamlit, OpenCV, TensorFlow*
- Developed a real-time driver drowsiness detection system using OpenCV and TensorFlow
- Integrated facial landmark detection and eye-blink monitoring to identify signs of fatigue
- Built an interactive dashboard with Streamlit for visualizing detection metrics and results
- Designed the system to trigger alerts when drowsiness is detected, ensuring enhanced road safety

Automated Indeed Job Search Tool | *Python, Claude, Selenium*
- Extracted up to 15,000 job data from Indeed when prompted with a job title and location
- Automatically saved extracted data into a structured CSV file for easy analysis
- Utilized Claude 3.7 Sonnet to analyze a person's resume and recommend the best job for them
- Ensured compliance with Indeed's terms of service and scraping guidelines

TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS, JavaScript, Git, R, SQL, SAS
Libraries/Frameworks: Pandas, Numpy, Matplotlib, TensorFlow, MERN, Redux, Selenium, LangChain, Flask, PyTorch, FastAPI, Docker