ASHOK GAIRE

Newport, KY | gaireashok79@gmail.com | linkedin.com/in/ashok-gaire3 | www.ashokgaire.com.np

EDUCATION

Northern Kentucky University | Highland Heights, KY   **December 2025**
    Bachelor of Science in Computer Science (Minor in Data Science and Mathematics)   **GPA: 3.62/4.0**
    Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Database Programming, Artificial Intelligence, Advanced Programming with C++, Big Data, Data Visualization, Software Engineering

SKILLS

Language: Python, Java, MySQL, PostgreSQL, R, JavaScript, HTML, CSS, C++
Frameworks/libraries: ReactJS, NodeJS, Django, TensorFlow, Scikit-learn, Bootstrap, Spring Boot, Tailwind
Others: Linux, Git, Power BI, MongoDB, Docker, AWS, REST APIs, Troubleshooting, Microsoft Office

PROFESSIONAL EXPERIENCE

AI Research Assistance | Smart Agent for Chrome Dino; NKU   **Jan 2025 – Present**
- Developing an AI model using **Convolutional Neural Networks (CNNs)** to detect game elements and make autonomous, real-time decisions.
- Implementing reinforcement learning algorithms to improve the agent's adaptability, optimizing performance based on increasing game difficulty.
- Utilizing **OpenCV** for image preprocessing and deep learning frameworks like **TensorFlow** and **PyTorch** to enhance model accuracy and efficiency.

Desk Student Support Assistant | FYSSH; NKU   **January 2025 – Present**
- Managed student data operations and system update using SAP, Student Admin, and Navigate, ensuring data accuracy, integrity, and troubleshooting technical issues.
- Provided end-user support for academic systems, assisting students and staff with technical issues, account access.
- Assisted in IT asset management and collaborated with IT teams to enhance system accessibility, security, and usability.

NKU STEM Peer Mentor | College of Informatics; NKU   **Aug 2024 – Aug 2025**
- Mentor STEM majors by providing academic guidance and resources while leading initiatives to support STEM retention and success, inspiring students through mentorship and campus involvement.
- Collaborate with faculty and peers, leveraging academic achievements and campus involvement to enhance the student experience and foster STEM engagement

PROJECT EXPERIENCE

Stock Price Predictor | Python, TensorFlow, Pandas, Scikit-learn, Matplotlib   **June 2025 – Present**
- Built an LSTM-based machine learning model in Python to predict stock prices using historical data and technical indicators.
- Engineered robust data preprocessing pipelines with Pandas and scikit-learn, including normalization, feature selection, and handling missing values for reliable model performance.

Medical Dashboard | React Native, Tailwind CSS, Recharts, Django, PostgreSQL   **Spring 2025**
- Developed a full-stack Medical Dashboard using React and a Python RESTful API, featuring interactive data visualization for patient health metrics.
- Engineered a scalable backend with Django and PostgreSQL to manage CRUD operations for patient records and vital signs, implementing data validation and user authentication.

Student Management System | React, Node.js, MongoDB, REST APIs   **Oct – 2024**
- Designed a robust end-to-end web application with React.js, Node.js/Express.js, and MongoDB, enabling efficient student enrollment, grade tracking, and automated report generation.
- Implemented secure RESTful APIs with authentication and role-based access control, ensuring data integrity and institutional reliability.

VOLUNTEER AND CAMPUS ACTIVITIES

COI Ambassador | College of Informatics; NKU   **August 2024 – Present**
Norse IoT Club | College of Informatics; NKU   **January 2024 – Present**
University Honors: NKU Dean's Honor List for Spring 2021-2022, Fall 2022-2023, Spring 2023-2024, Spring 2024-2025