

Gaurab Upreti

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EDUCATION

Northern Kentucky University | Highland Heights, KY

B.S. in Computer Science | GPA: 3.76/4.0

May 2025

Relevant Courses: Data Structures and Algorithms, Full Stack Application Development, Database Programming

TECHNICAL SKILLS

Programming Languages: Java (Advanced), Python (Advanced), C (Intermediate), JavaScript (Intermediate), SQL

PROJECTS

BINGO Game | Full Stack Development Project

May 2023

- Collaborated with a team of 4 and developed a simple version of a Bingo game with **JavaScript-based** front-end, **Node.js** and **Express.js** backend, **MongoDB** database that stores back-end application state. It uses **JSON Web Tokens (JWT)** for user authentication and authorization.
- Designed most of the front end and Nodejs.

Income Prediction | Personal Project

July 2023

- Developed a predictive model to classify individuals into income groups based on demographic and employment-related features.
- Utilized a **Random Forest Classifier ML** algorithm to predict income levels.
- Preprocessed the dataset from Kaggle including **one-hot encoding** and **binary transformation**.
- Conducted **Exploratory Data Analysis (EDA)** for insights and visualization.

Real time Stock Price Tracker | Personal Project

July 2023

- Developed a web application to track real time stock prices for multiple companies.
- Use **Flask** for the server-side and **JavaScript** for the front end with real time data updates.

Fingerprint Matching | Personal Project

August 2023

- Employed computer vision techniques to create a fingerprint recognition.
- Use of **OpenCV** and **SIFT** algorithm to match a given fingerprint image with a database of real fingerprint.

Face Recognition | Personal Project

August 2023

- Demonstrated real-time face recognition using **OpenCV** and **face_recognition** library.
- Captured video from webcam, encoded a reference image and compared it to detected faces in each frame.
- The system displayed the recognized person's name if the match is found.
- Used in security and user authentication.

Automate Google Search Engine | Personal Project

August 2023

- Utilized python's **requests** library to perform API requests to Google Custom Search.
- Demonstrated proficiency in making API requests and handling JSON data in Python, with application in web scraping and data retrieval.

Blockchain in Computer Networking | Class Research Project

April 2023

- Researched the transformative impact of blockchain technology on computer networking, emphasizing enhanced security, transparency, and efficiency.
- Explored the applications like distributed cloud storage and peer-to-peer networking to bolster data communication and privacy.
- Addressed implementation challenges, including scalability and regulatory issues.
- Contributed valuable insights to the field, opening avenues for future research innovation.

PROFESSIONAL EXPERIENCE

Teaching Assistant | Northern Kentucky University | Highland Heights, KY

August 2022

- Mentor around 100 Introduction to Programming students, explaining concepts of Computer Science and programming.
- Worked in tandem with other teaching assistants to arrange office hours and curriculum, ensuring that students have ample access to assistance and that assessments are swiftly graded and returned.