Shiva khatri

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EDUCATION

Northern Kentucky University – *B.S. in Computer Science (Edge scholarship)* *May 2025*

- Relevant Coursework: Data Structures & Object-Oriented Design (Java), Database(SQL), Web-Development

EXPERIENCE

Research Assistant – *Northern Kentucky University* *May 2023 – Present*

- Developed a machine-learning model for facial recognition using Python, leveraging **OpenCV**, **TensorFlow**, & **Keras**.
- Utilized deep learning techniques, including **CNNs** to train the model on a large dataset of images, achieving **90%** accuracy.
- Collaborated to conduct research on facial landmarks, detection, emotional recognition & age estimation using **Jupyter**.

Teaching Assistant for Python Programming – *Northern Kentucky University* *Jan 2022 – May 2022*

- Assisted Professor in teaching Python to a class of **28** by evaluating exams, providing answers & delivering lectures.
- Helped students understand best coding practices, debugging & editor tools, and core concepts including arrays, pointers, **trees**, linked lists, stacks, queues, heaps, **graphs**, hash maps, algorithms, and functional programming.

Software Developer – *Namaste Courier and Cargo* *Jun 2020 – Aug 2021*

- Collaborated to develop a user-friendly customer portal using **Angular** and **RESTful APIs**, enhancing user experience.
- Leveraged the **CourScan API** to integrate real-time parcel scanning functionality, reducing processing time by **50%.**
- Implemented a tracking system using the **CargoTrack API**, resulting in a **40%** reduction in delivery errors.

PROJECTS

Real-Estate-Price-Predictor – *Python, NumPy, Pandas, Matplotlib, Scikit-learn, Jupyter, Flask* ***REPG-Github***

- Developed a machine learning model to predict prices based on area & rooms, achieving an accuracy of **85%.**
- Created web app using **Flask**, HTML, CSS & JavaScript for user-friendly property input and accurate price predictions.
- Leveraged **NumPy, Pandas**, & **Matplotlib** to manipulate, visualize, and analyze data, improving **90%** of decisions.
- Generated precise predictions, saving users time and providing a convenient real estate tool for decision-making.

Ideabook – *MongoDB, Express.js, React.js, Node.js, Typescript* ***Ideabook-Github***

- Developed **MERN** stack app with **CRUD** functionality, robust user authentication, & seamless data management.
- Utilized Express.js **APIs** for routing, handling **HTTP** requests/responses, & implementing middleware in the app.
- Stored & retrieved user notes using **MongoDB**, achieving **95%** faster data access and retrieval compared to others.

Art-Haven – *React, Redux, Node.js, Stripe, HTML, CSS, JavaScript* ***Art-Haven-Github***

- Developed an e-commerce site empowering customers to browse, search, and filter paintings by artist, style, & price.
- Created server-side **rendering** with Node.js for enhanced performance & **SEO** optimization, reducing load times.
- Implemented **Stripe** payment integration with a **99.9%** success rate, ensuring reliable transaction processing.

RSI-Based-Crypto-Trading-Bot – *Python, NumPy, CoinbaseAPI* ***Trading-Bot-Github***

- Developed Python trading **bot** using Relative Strength Index strategy for automated **Bitcoin** & **Ethereum** trades.
- Utilized **WebSocke**t & **Coinbase API** for real-time market updates & leveraged **NumPy** for efficient data calculations.

TECHNICAL SKILLS

- **Languages:** Node.js, Python, JavaScript, Java, Typescript, HTML/CSS, SQL
- **Frameworks:** React.js, MongoDB, PostgreSQL, Next.js, Redux, Express.js, Flask, Git/GitHub, Unix/Linux/Bash
- **Cloud Computing:** Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

CERTIFICATIONS AND LEADERSHIP

- **Lyft(Back-End Engineering Program) –** Refactored codebase, added 2 new functionality and implemented test cases.
- **JPMorgan(Software Engineering Program) –** Used Morgan's frameworks & tools & displayed data visually for traders.
- **MakeUC (Hackathon) –** Collaborated with a team of 4 students to create a travel site using HTML, CSS & Javascript.