AYUSH JHA
Software Developer

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PROJECTS

ELEVATE   **DELHI**
Intelligent Elevator Optimization Platform   **AUG 2023 – JAN 2024**

- **Problem Statement** - *Traditional elevator systems lacked an efficient algorithm for minimizing wait times and **optimizing travel paths**, leading to energy consumption and travel time*
- **Engineered** an algorithm in **C**++ using **STL** and BOOST, simulating a **40%** decrease in wait times and a 25% increase in system reliability
- **Developed** path Algorithm, leveraging DSA principles, predicting a 30% reduction in travel time & enhanced operational efficiency
- Utilized **mathematical analysis** to estimate, on implementation of the algorithm through **microcontrollers** a 20% increase in overall **energy efficiency** and system performance

NOVA   **DELHI**
Website Automation Platform   **JULY 2023 – AUG 2023**

- **Problem Statement** - *Non-technical users encountered barriers in quickly creating personalized websites*
- Built backend & user-friendly frontend using **Node.js**, Express.js, **MongoDB**, and React.js, enabling a **30%** faster website creation process
- Developed advanced features for **customization** through **user prompts**, code generation of user created website & deployed the system with **version control** through **Git** & **AWS**
- **Performed** extensive **testing** through Mocha, RTL, Passport.js. Utilized Swagger, npm for enhancement of **backend functionality**

VERIF-EYE   **DELHI**
Authenticity Assurance App   **MAR 2023 – MAY 2023**

- **Problem Statement** -*Mass distribution of counterfeit products through fraudulent sellers needs a check by a real-time authenticity calculator*
- Designed product authentication solution using **MERN stack**, RESTful API, Mongoose & Redux for precise accuracy in **app functionality**
- Leveraged **advanced image recognition** with OpenCV & **PyTorch**, integrated SSL encryption, Firebase for real-time updates, **Google maps API** for location-based handling
- Functioning of app basis inputs from image, data, location of product & data calculation providing **accurate authenticity** result on good

FORECAST-IQ   **DELHI**
Stock Price Predictor Algorithm   **DEC 2022 – FEB 2023**

- **Problem Statement** – *Unpredictable stock markets require reliable forecasting for safer investments*
- Developed a **trading program** utilizing **predictive algorithms** to forecast stock prices, leveraging **Python libraries** such as Pandas, NumPy, Scikit-learn, PyTest, PyTorch, and QuantLib for **data analysis** and **model training**
- Demonstrated proficiency in **API integration** by seamlessly incorporating **Bloomberg API** and **AWS services**, enabling real-time data retrieval, **cloud scalability**, and **regulatory** compliance in the trading program

EDUCATION

B. Tech, Delhi Technological University   **2022-2026**

[Microprocessor & Interfacing, Computational Optimization, Digital Electronics, Communication Systems]

ADDITIONAL INFORMATION

- Programming **Mentor**, IEEE – Mentored **200**+ students in Programming (*C++, Python, DSA*)   *Sep - 2023*
- **Winner** of national level street dance battle 'NachYudh' at **IIT Bombay**   *Dec – 2023*
- **Team Leader** at VIBE, Dance Crew of Delhi Technological University   *Aug - 2023*
- **Indian Vocalist** at Madhurima, Musical Club of Delhi Technological University   *Feb – 2023*
- **Led** football team to win **2ⁿᵈ position** in state level tournament by Delhi Soccer Association   *Feb - 2022*