Raghav Pant

raghavpant443@gmail.com
GitHub | **Linkedin**

Education

ABES Engineering College — Ghaziabad, Uttar Pradesh
Information Technology B.Tech — 2021 - 2025

Experience

IIDST | **Data Analyst Intern** — Noida, India | October 2024 - January 2025

- Rebuilt and restructured the organizations backend and database architecture, achieving a 30% improvement in data retrieval speed while ensuring high-quality data accuracy for decision-making processes.
- Designed and deployed interactive dashboards using Power BI, enabling upper management to make data-driven decisions with real-time insights.
- Conducted in-depth cleaning, transformation, and analysis of financial data, ensuring consistency and accuracy across reports.
- Developed automated processes for data validation and anomaly detection, reducing manual errors by 25%.

Freelancer | **Web Developer** — Remote | March 2024 - June 2024

- Constructed a responsive website for a shipping and delivery agency, optimizing it for mobile users; the site now accommodates over 5,000 monthly visits and has received positive feedback from the organization
- Website is deployed on the organization's servers and is being used by the organization on a daily basis.
- Utilized front end technologies such as HTML, Tailwind CSS, and Javascript to ensure fast performance and reduction in serve time.

Skills

Programming Languages:	C, Python, HTML, CSS, Javascript
Libraries/Frameworks:	React, Express, Node, Tensorflow, Keras, OpenCV, Tailwind CSS
Tools / Platforms:	Git, PowerBI, VS Code, Jupyter
Databases:	SQL

Projects / Open-Source

Heart Rate Estimation using rPPG | **Link** — *Tensorflow, OpenCV, Numpy, Keras*

- A project to utilize convolutional neural networks and support vector machines to estimate heart rate of a person remotely through a camera feed.
- Further utilization includes building a deepfake detection system using the data fetched from the heart rate detection, improving security in modern day face detection systems.

Web Server | **Link** — *C Language*

- Built an entire web server using only C, designed to serve HTTP GET requests.
- Implemented multithreading and an LRU cache to improve page serve time and reduce potential downtime. With both techniques, a typical proxy server can handle 3x to 10x more RPS compared to a single-threaded server without caching.
- Implementing caching and multithreading increases throughput by 6x-10x, improves response time by 50%-75%, and reduces bandwidth usage by 50%-70% (depending on cache hit ratios).

Certifications

- Supervised Machine Learning : Regression and Classification - **Coursera**
- FinTech Engineering - **Goldman Sachs**
- Software Engineering Job Simulation - **JP Morgan Chase**
- Data Analytics - **KPMG Australia**