

Abhishek Kumar

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EDUCATION

Vellore Institute of Technology, Vellore

Bachelor Of Technology in Information Technology

Sept 2021- Aug 2025

EXPERIENCE

KPMG | Data Analyst Intern

NOV 2023- Dec 2023

- Analysed, Streamlined and optimized SQL query operations, **reducing processing times by over 20%**.
- Extracted, cleaned, manipulated and transformed datasets using Python, SQL, MS Excel and generated PowerBI dashboards for targeted strategies accelerating 15% increase in customer engagement.

Ethnus | MERN Developer Extern

JULY 2023 – NOV 2023

- Created and launched initial websites using the **MERN stack**, optimizing and modernizing the design to enhance **user friendliness by 30%**.
- Managed user inputted data across multiple platforms through MongoDB resulting in 12% faster load times.

PROJECTS

Car Rental Website (MERN Stack Project) - [Live](#)

- Developed a car rental platform utilizing **MERN**, ensuring smooth visualization and reducing latency by 30%.
- Implemented secure user **authentication** and authorization functionalities using **JWT** (JSON Web Tokens).
- Utilized **MongoDB** with **Mongoose** for data management, handling user details and rental information.

Graph Path Visualizer (DSA Project) - [Live](#)

- Designed an interactive application implementing graph algorithms such as **Dijkstra's, BFS, and DFS**, providing real-time visualizations demonstrating 100% coverage of DSA's graph concepts.
- Leveraged Node.js for backend logic to handle algorithm computations and ensure smooth visualization.

Virtual Mouse using Hand Gesture Recognition (AI | Computer Vision) - [Live](#)

- Engineered a virtual mouse application using real-time hand gesture recognition with **Python, OpenCV, and Media pipe**, achieving **97% accuracy** in gesture detection and enhancing touch-free computer interaction.
- Integrated Robust gesture recognition functionalities, enabling seamless control of mouse operations.

Ransomware Malware Detection and Analysis (Project in collaboration with VIT, Vellore)

- Ransomware detection system using **ML**, achieving **95% accuracy** in identifying ransomware behaviours.
- Conducted analysis of 50+ ransomware samples in sandbox environments using **Cuckoo Sandbox**.
- Applied **bio-inspired optimization**, enhancing detection **accuracy by 20%** and improved data completeness.

Minor Projects

Progressive-Financial-Analysis (Data Analysis and Visualization) - [Live](#)

- Deployed a real-time progressive financial analysis dashboard (PowerBI) to track and visualize financial data.

WhatsApp-Chat-Analyzer (Data Analysis and Visualization) - [Live](#)

- Exploring WhatsApp chat trends and interactions using Python with 100% accurate data insights b/w users.

SKILLS

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|-------------------------------------|--|
| • Languages: | C++, Java, Python, JavaScript |
| • Frontend: | HTML5/CSS, Bootstrap, ReactJS, Figma |
| • Backend/Database: | Node.js, Express.js, MongoDB, Firebase, SQL(PostgreSQL, MySQL) |
| • Data Analytical tools: | PowerBI, MS Excel, Tableau, Python (NumPy, Pandas, Matplot, Seaborn) |
| • Developer and other tools: | AWS Cloud, Git, UNIX |

RELEVANT COURSE WORK/ CERTIFICATIONS

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|---|---------------------------------------|----------------------------------|
| • Data Structures - CodingNinjas | • AWS Cloud Practitioner – AWS | • Data Analytics – Google |
| • SQL for Data Science -VIT | • Web Development - Udemy | • Operating Systems - VIT |