SHUBHAM VERMA

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Education

Vellore Institute of Technology   **September 2021 – May 2025**
Bachelor of Technology in Computer Science and Engineering   *CGPA: 9.02*

Technical Skills

Languages: C++, Java, MySQL, Python, Pandas, Numpy, Scikit Learn, OpenCV
Developer Tools: AWS, Github, VSCode, Android Studio
API: Google Gemini API

Certifications

AWS Cloud Practitioner	December 2023
NPTEL Cloud Computing	May 2024
IamNeo Data Structures and Algorithm	May 2024

Experience

Wise Work   **January 2024 – July 2024**
Software Engineer Intern   *Bangalore, Karnataka*

- Engineered a comprehensive Student Management System using Figma for intuitive design and SQL for efficient database management, improved data retrieval speed and reduced administrative errors by 25%.
- Developed an efficient backend structure containing intricate SQL queries in MySQL, resulting in a 25% decrease in data processing time and improved management system performance.

Celebal Technologies   **May 2024 – July 2024**
Cloud Infrastructure & Security   *Jaipur, Rajasthan*

- I gained hands-on experience in data center operations, including applying load balancing across multiple virtual machines, and comprehensive networking concepts such as three-tier architecture, IP addressing, OSI model, and virtual networks.

Projects

Money Mentor: AI-Powered Loan and Financial Advisory Tool | *Flask, Gemini API, MySQL*   **November 2024**

- Developed an AI-powered application to predict loan approvals, provide business ideas, and offer personalized financial advice using a chatbot integrated with Google Gemini API.
- Implemented advanced analytics and machine learning for improved decision-making accuracy, leveraging Flask for the backend and MySQL for database management.
- Designed an intuitive user interface with HTML/CSS and JavaScript, enhancing user engagement and financial planning capabilities.

Hyderabad Metro Map routing using Dijkstra's Algorithm. | *Python, C++, HTML, CSS, JavaScript*   **June 2024**

- Created a real-time web application for calculating shortest paths between Hyderabad Metro stations, reducing average commute time.
- Analyzed Dijkstra's Algorithm in C++ to optimize route planning, reducing time by 20% and improving accuracy of minimum distance calculations between source and destination stations.

Air Canvas: Drawing with Hand Gestures. | *Python, Numpy, OpenCV, MediaPipe*   **May 2024**

- Developed Air Canvas, a real-time virtual drawing application, enabling users to create digital art through hand gestures; increased user engagement by 45%.
- Intuitive hand movement-based color selection and drawing features, boosting user interaction by 25%.

Research Paper

Applications of Computer Vision and Drone Technology in Agriculture 4.0.   **March 2024**

- Authored Chapter 8 on Computer Vision applications in agriculture, published by Springer Nature Singapore; provided actionable insights that boosted crop yield predictions by 25%, available on Amazon & Springer.

Extracurricular & Achievements

NPTEL Cloud Computing, IIT Kharagpur   **Silver Certification**
Secured Silver Certification with Elite status in IIT Kharagpur's NPTEL Cloud Computing.   *May 2024*

Google Developer Hackathon   **4th Runner-up**
Achieved 4th runner-up position out of 280+ national submissions in the Google Developer Hackathon.   *April 2023*

AdVITya, VIT Bhopal   **Event Manager**
Managed AdVITya at VIT Bhopal, coordinating 50+ volunteers and boosting event attendance by 40%.   *February 2024*