

HARSHITA

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Education

Vellore Institute of Technology

B.Tech in Computer Science and Engineering / CGPA: 8.35

Bhopal, India

Expected May 2026

Brilliants' Convent School

Higher Secondary - 83.2%

Delhi, India

May 2022

Brilliants' Convent School

Secondary school - 83.8%

Delhi, India

March 2020

Experiences

Centre for Fire, Explosive and Environment Safety (DRDO)

December 2024 – January 2025

Research Intern

Delhi, India

- Developed an immersive Virtual Reality (VR) fire training simulator to replicate high-risk emergency scenarios, enhancing safety protocol adherence and tactical decision-making for firefighter teams.
- Collaborated with DRDO scientist Mr. Trilochan Singh Rathore at CFEES to engineer a realistic training environment, improving emergency response preparedness and critical reaction skills.

PreProd Crop

September 2024 – October 2024

Data Analyst Intern

Remote

- Designed and deployed end-to-end AI/ML solutions, engineering optimized SQL and PySpark data pipelines that accelerated ETL processes by 40%, reducing data latency and improving resource efficiency.
- Implemented predictive models that raised forecasting accuracy by 25% and launched intuitive Power BI dashboards that empowered stakeholders to make data-driven decisions 30% faster, directly enhancing key business outcomes..

Projects

Avenge.AI | Python, Flask, Node.js, ReactJS, SQLite3

January 2025

- Engineered a full-stack AI platform that streamlined the end-to-end ML workflow, allowing users to upload datasets (.csv, .xlsx/.xls), perform automated preprocessing, and train 5 distinct machine learning models through an intuitive interface.
- Implemented advanced data preprocessing and integrity pipelines that ensured high model fidelity, achieving up to 95% training accuracy and 92% testing accuracy on benchmark datasets.

Text Summarizer NLP | AWS Cloud, GitHub, NLP, Docker

December 2024

- Developed and deployed a text summarization tool to reduce information overload by creating concise summaries while maintaining key points and overall meaning, processing over 1000+ text samples for training and validation.
- Achieved significant text reduction ratios (10:1) without compromising relevance and importance of extracted information. Utilized AWS Cloud for deployment and leveraged GitHub for version control and Docker for containerization.

Promptopia | GitHub, Vercel, MongoDB, Google Auth, Next.js

August 2024

- Built a Next.js platform for sharing and discovering AI prompts, enhancing user experience and AI tool utilization, and curated prompt categories with detailed usage instructions, improving prompt effectiveness by 15%.
- Leveraged Vercel for deployment and MongoDB for data storage, enabling the platform to handle 1000+ monthly active users with minimal performance degradation. Integrated Google Auth for secure user management and privacy protection.

Technical Skills

Languages: C++, Python, JavaScript, SQL, HTML/CSS

Developer Tools: Google Cloud Services, VS Code, Git, Docker, AWS

Technologies/ Frameworks: MERN, FastAPI, Flask, n8n

Extra Curricular

iOS Club

February 2024 – Present

Tech Team Lead

VIT Bhopal University

- Delivered immersive workshops on iOS development covering 5 advanced frameworks over 4 weeks.
- Enabled 90% of participants to build functional apps by the end of the program.

Achievements

- Awarded a full scholarship for the AI Programming with Python Nanodegree (Udacity) by AWS AI ML Scholar program, complemented by mentorship from industry experts to advance practical AI/ML proficiency.
- Demonstrated competitive technical excellence by securing top positions in national hackathons (Finalist - VIT Unplugged24, 1st Runner-up - Buildathon24, Top 6 - VITB-JHU Health-Hack 2025) and contributing to open-source initiatives (Hacktoberfest, GirlScript Summer of Code).