HARSHITA

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Education

Vellore Institute of Technology — **Bhopal, India**
B.Tech in Computer Science and Engineering / CGPA: 8.31 — *Expected May 2026*

Brilliants' Convent School — **Delhi, India**
Higher Secondary - 83.2% — *May 2022*

Brilliants' Convent School — **Delhi, India**
Secondary school - 83.8% — *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

CuraSense | *FastAPI, Python, LLMs, HuggingFace NER, RAG, Clinical NLP, REST APIs* — **September 2025**
- Implemented a GenAI-driven clinical decision support system (CDSS) capable of delivering personalized, high-accuracy diagnostic and treatment recommendations that improve continuously by integrating emerging medical research and patient-specific context.
- Developed an intelligent medicine-analysis engine that performs drug content extraction, brand comparison, and safe alternative recommendations using multimodal LLMs and structured reasoning pipelines.

Avenge.AI | *Python, Flask, Node.js, ReactJS, SQLite3* — **December 2024**
- 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.

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.
- 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, SQL, HTML/CSS
Developer Tools: Google Cloud Services, VS Code, Git, Docker, AWS
Technologies/ Frameworks: MERN, FastAPI, Flask, Machine Learning

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).