Nehal Nisha

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Education

B. Tech (CSE) VIT Bhopal University	**CGPA: 9.21** *Bhopal*		|*2026/05*|
Intermediate, BSN Academy	**95.8%** *Kota*		|*2021/07*|
High School, Chinmaya Vidyalaya	**97.4%** *Rourkela*		|*2019/05*|

Skills

Languages: Java, C++, HTML, CSS, SQL
Framework: Three.js, React.js, Next.js, Tailwind CSS
Database: MySQL, MongoDB
Tools: GIT, GitHub, Streamlit, Restful API, AWS, Machine Learning, NLP

Selected Projects

BookRide, MERN Stack (MongoDB, Express.js, React.js, Node.js)   \|*2025/02 -2025/03*\|

Developed a real-time ride booking system with role-based modules (user, driver, admin) using React for responsive UI and MongoDB for efficient trip and user data storage.
Implemented live driver tracking, trip updates, and socket-based communication for real-time interactivity.
Optimized backend APIs and ensured smooth client-server interaction through scalable Express.js routing and Node.js middleware.

PrepInc: React.js, Node.js, Firebase, Vapi API, OpenAI/Gemini   \|*2025/01 -2025/02*\|

Built an AI-driven mock interview platform with voice interaction using Vapi agents and dynamic feedback powered by Gemini-based NLP.
Integrated Firebase for session storage, user auth, and real-time scoring; Node.js for interview flow management.
Enhanced candidate assessment with sentiment and keyword analysis, enabling adaptive question sequencing and voice tone evaluation.

Onco-cast: Python, TensorFlow, Scikit-learn, OpenCV, Matplotlib   \|*2024/11-2024/12* \|

Designed a deep learning model for skin cancer detection using the HAM-10000 dataset with preprocessing in both RGB and grayscale formats.
Implemented CNNs for image classification and evaluated multiple ML models to compare accuracy and performance.
Applied data augmentation, dropout regularization, and adaptive learning rates to improve generalization & overfitting.

Extracurricular &Experiences

Data Analysis Intern | Indian Institute of Technology, Kanpur Summer Training Program 2023 conducted at IIT Kanpur Campus, ranked as the top performer amongst the 75 other candidates achieving 70% aggregate.

IOS Club Student Chapter Club, served as Core Member of the **event management team**, organizing more than ten technical events, coding and quiz competitions**.**

GirlScript Summer Of Code 2024, selected as a GSSOC 2024 as a contributor for 2024 session.

Volunteered with Local elementary to teach underprivileged students with basic mathematics under the organization 'Pahal'.

Achievements

Health Hackathon Finalist-Qualified till the final round of the hackathon in collaboration with John Hopkins University and was among the top 10 selected teams.

ZS Tech Challenge-Advanced to the second round of the ZS campus Recruiting Hackathon along with my team.

Project Lead - Multimodal RAG Chatbot for PDFs: Led a team of 5 and recognized as the top performer for delivering impactful solutions and driving team success.

Certifications

GEN AI using IBM Watsonx	Full Stack Developer MERN with MongoDB, SmartBridge

Languages & Hobbies

English, Hindi, Odia
Public Speaking, Volunteering for tech clubs, Video Editing &Tech Blogging