Vartika Singh

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EDUCATION

VIT Bhopal University   Madhya Pradesh, India
B.Tech in Computer Science and Engineering   *9.33/10.00*
- **Courses:** Data Structures, OOPS, Computer Networks, Operating Systems, Database Management Systems

Modern Delhi Public School   Haryana, India
CBSE Class XII (Science Stream)   *93%*
CBSE Class X   *97.8%*

Technical Skills

Languages: C, C++, Java, Python, JavaScript, HTML, CSS, MySQL
Developer Tools: Git, GitHub, Visual Studio Code, Docker
Frameworks: React.js, Node.js
Libraries: Pandas, NumPy, Scikit-learn, Matplotlib

EXPERIENCE

Larsen & Toubro Carbolite Solutions, Vadodara, Gujarat   Oct 2024 – Dec 2024
IT Intern
- Designed the **Sampark Portal** for the IT department at LnT, allowing department heads to connect with junior employees and schedule bi-annual meetings.
- Added reminders and linked the portal to the employee database for smooth operation.

Coding Ninjas   Sep 2023 – Dec 2023
Teaching Assistant
- Addressed over 600 doubts with a **4.7/5** rating and mentored more than 550 students in Data Structures.

PROJECTS

Carbon Footprint Calculator | *HTML,CSS,Javascript,Chart.js* [GitHub Link]   Jan 2025-Feb 2025
- Developed CO2 Sense, a web-based Carbon Footprint Calculator to estimate CO_2 emissions from electricity usage, food choices, and transportation habits.
- Integrated Chart.js for interactive graphs, helping users visualize their environmental impact and make better choices.

Medistats - Behavioral Disorder Detection | *ML, Pytorch, MongoDB, React JS* [GitHub Link]   Jan 2024-Mar 2024
- Developed and deployed a real-time web application utilizing a machine learning model to predict early signs of behavioral disorders such as ADHD, dyslexia, autism, achieving a prediction accuracy exceeding **90%** based on a unique dataset derived from extensive research and surveys involving over **500** participants.
- Designed and integrated a user-friendly platform allowing parents to answer 15 diagnostic questions for early detection of potential behavioral disorders in children, resulting in timely interventions and support; seamlessly implemented a linear machine learning model with a prediction accuracy of approximately **95%**.

POSITIONS OF RESPONSIBILTY

Geeks for Geeks Student Chapter   Jan 2024 – Jan 2025
PR and Outreach Team Lead
- Led a team of 8 members in the GFG Student Chapter, managing sponsor relations for our university's annual technical festival, AdVITya '24. Secured 'Unstop' as the sponsor for the Bug Bonanza event.

Hydronexus Club   Oct 2023 – Mar 2023
Senior Technical Lead
- Currently integrating machine learning into hydroponic techniques and implementing a hydroponic setup at VIT Bhopal University to enhance crop cultivation for farmers in Kothri Kalan, Madhya Pradesh.

National Service Scheme   Oct 2023 – Feb 2024
Team Lead
- Conducted surveys, volunteered at blood donation camps, and organized plantation drives in nearby villages. Attended a 7-day district-level NSS camp and was selected for the state-level camp.