Deeksha Kushwaha

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Education

Vellore Institute of Technology Bhopal University, Bhopal **2022 - 2026**
B. Tech in Computer Science and Engineering CGPA – 8.96
Allenhouse Public School, Kanpur **2021**
Class XII PCM-94.2%
Allenhouse Public School, Kanpur **2019**
Class X 96%

Technical Skills

- **Programing Language:** C++, Python
- **Technologies:** HTML, CSS, React.js, Node.js, MySQL
- **Tools/ Frameworks :** Git, GitHub, Normad Sculpt

Projects

IoT-based Smart Parking System with Dynamic Pricing | *Python, LightGBM, Pandas, Scikit-learn* Aug 2025

- Constructed a robust data pipeline using Pandas to clean, preprocess, and transform raw IoT sensor logs into a structured, hourly time-series dataset for analysis.
- Engineered and validated a LightGBM regression model to accurately forecast parking occupancy, applying advanced time-series feature engineering and using Mean Absolute Error (MAE) to measure performance.
- Designed a hybrid dynamic pricing engine that combines the model's predictions with rule-based business logic (e.g., peak hours) to calculate and set optimal prices.

Campus Auction Website | *MERN Stack (MongoDB, Express.js, React, Node.js)* Jan 2025 – Mar 2025

- Spearheaded a team of 9 devlopers in the end-to-end development of a MERN-stack campus auction platform, overseeing project planning, task delegation, and final deployment.
- Engineered the platform's core real-time bidding system using Node.js, Express.js and MongoDB designing robust backend logic for bid processing, tracking, and winner notifications.
- Implemented a computer vision feature to automatically detect and reject blurry images, significantly improving the quality of listings and enhancing user trust.

Smart Campus Navigation System | *Python, Folium* May 2024

- Designed and built an interactive campus navigation system using Python, Pandas, and Folium to visualize optimal routes and key locations across the college grounds.
- Engineered an advanced indoor navigation module to map and display precise pathways within buildings, guiding users to facilities like washrooms and water coolers.
- Developed a dynamic "Free Classroom Finder" by processing college timetable data, enabling students to instantly locate and navigate to vacant rooms for studying.

Extra-Curriculars

- Core Member, Teaching Team, Pi Mathematics Association, VIT Bhopal University (Mar 2024 - Present): Instructed over 30 students in advanced mathematics concepts.
- Core Member, Web Development Team, Anime Club, VIT Bhopal University (Mar 2024 - Ongoing): Organized multiple events with attendance exceeding 100 participants.

Achievements and Certificate

- Semifinalist, Nokia Accelerate Her 2025: Reached the semi-final stage of this competitive national coding hackathon.
- SIH 2024 College Round Semi-Finalist: Contributed to a machine learning project for early plant disease detection by analyzing environmental factors and imagery.
- 3D Modeling Enthusiast: Designed and crafted 15+ 3D models using Nomad Sculpt, specializing in characters and objects for digital art and concept work.
- Marketing Analytics by NPTEL, Score 77%, Jan- Apr 2025
- Cloud Computing by NPTEL, Score 87% (top 2% of the class), Jan - Apr 2024