

# Nihal Manjunath

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## EDUCATION

<b>BMS College Of Engineering, Bangalore</b> <i>B.E. in Computer Science and Engineering</i>	2022-2026 CGPA:7.0
<b>Deeksha PU College, Bangalore</b> <i>Intermediate/+2</i>	2020-2022 91%
<b>Delhi Public School, Bangalore South</b> <i>CBSE Class X</i>	2010-2020 93.4%

## TECHNICAL SKILLS

**Languages:** C/C++, Java, Python, SQL, JavaScript, HTML/CSS  
**Frameworks:** React, React Native, Node.js, Tailwind CSS, FastAPI  
**Database Technologies:** MongoDB, PostgreSQL, MySQL, Firebase  
**Domains:** Full-Stack Development, App Development (iOS/Android), Machine Learning  
**Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn, Tensorflow  
**Version Control:** Git/GitHub

## EXPERIENCE

<b>Full Stack Developer Intern</b>   <i>Bhatiyani Astute Intelligence - <a href="#">Link</a></i>	June 2025 – Aug 2025
<ul style="list-style-type: none"><li>Developed and deployed a <b>fully responsive, multi-page website</b> using <b>HTML5, CSS3, and JavaScript</b>, ensuring mobile and cross-browser compatibility.</li><li>Integrated <b>AI-powered computer vision software</b> to enable real-time image/video analysis and interactive features on the website.</li><li>Orchestrated front-end feature enhancements on the company website, leveraging <b>JavaScript and DOM manipulation</b> to reduce website loading times by 15% and decreasing bounce rates by 8%.</li></ul>	

## PROJECTS

<b>BMS College Canteen App (vk)</b>   <i>React Native, Firebase, Expo, REST APIs</i>	<a href="#">Link</a>   <a href="#">GitHub</a>
<ul style="list-style-type: none"><li><b>Built and deployed a cross-platform food ordering app</b> serving <b>1,000+ students</b> for seamless ordering with real-time database management and authentication.</li><li>Implemented <b>dynamic menu categories, cart management, and order tracking</b>, ensuring seamless user interaction and stock synchronization.</li><li>Integrated <b>nested Firestore subcollections</b> to manage food items, prices, availability, and user-specific selections efficiently.</li></ul>	
<b>Smart Grid RL</b>   <i>Python, TensorFlow, OpenAI Gym, Reinforcement Learning, Flask</i>	<a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Developed a <b>reinforcement learning</b>-based system for real-time energy grid optimization, improving load distribution efficiency by <b>up to 28%</b> in simulation tests.</li><li>Designed and trained custom RL agents using <b>DQN and PPO algorithms</b> on environments modeling <b>1,000+ dynamic grid states</b> for adaptive energy control.</li><li>Reduced simulated energy losses by <b>22%</b> through optimized demand-supply balancing and intelligent reward shaping.</li></ul>	
<b>Tinder For Jobs</b>   <i>React.js, MongoDB, Node.js, REST APIs</i>	<a href="#">Link</a>   <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>Developed a <b>MERN stack job-matching platform</b> with swipe-based matching, allowing both job seekers and recruiters to discover and shortlist each other in real-time.</li><li>Implemented <b>dynamic job recommendation, filtering, and search functionality</b> with real-time API integration.</li><li>Built <b>secure authentication and profile management</b> using <b>JWT</b>, with separate dashboards for job seekers and recruiters, and <b>MongoDB</b> for persistent data storage.</li></ul>	

## CERTIFICATIONS AND ACHIEVEMENTS

- Solved **500+ Data Structures and Algorithms problems** across multiple platforms.
- Published the **BMS Canteen App** on the **Play Store**, enabling students to order meals digitally and reducing manual order processing on campus.
- Stanford University: Machine Learning**  
Certificate: [View Certificate](#)
- Udemy: The Complete Full-Stack Web Development Bootcamp**  
Certificate: [View Certificate](#)