

Nihal Manjunath

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EDUCATION

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

- Full Stack Developer Intern** | *Bhatiyani Astute Intelligence* - [Link](#) June 2025 – Aug 2025
- Developed and deployed a **fully responsive, multi-page website** using **HTML5, CSS3, and JavaScript**, ensuring mobile and cross-browser compatibility.
 - Integrated **AI-powered computer vision software** to enable real-time image/video analysis and interactive features on the website.
 - Orchestrated front-end feature enhancements on the company website, leveraging **JavaScript and DOM manipulation** to reduce website loading times by 15% and decreasing bounce rates by 8%.

PROJECTS

- BMS College Canteen App (vk)** | *React Native, Firebase, Expo, REST APIs* [Link](#) | [GitHub](#)

- Built and deployed a **cross-platform food ordering app** serving **1,000+ students** for seamless ordering with real-time database management and authentication.
- Implemented **dynamic menu categories, cart management, and order tracking**, ensuring seamless user interaction and stock synchronization.
- Integrated **nested Firestore subcollections** to manage food items, prices, availability, and user-specific selections efficiently.

- Smart Grid RL** | *Python, TensorFlow, OpenAI Gym, Reinforcement Learning, Flask* [GitHub](#)

- Developed a **reinforcement learning**-based system for real-time energy grid optimization, improving load distribution efficiency by **up to 28%** in simulation tests.
- Designed and trained custom RL agents using **DQN and PPO algorithms** on environments modeling **1,000+ dynamic grid states** for adaptive energy control.
- Reduced simulated energy losses by **22%** through optimized demand-supply balancing and intelligent reward shaping.

- Tinder For Jobs** | *React.js, MongoDB, Node.js, REST APIs* [Link](#) | [GitHub](#)

- Developed a **MERN stack job-matching platform** with swipe-based matching, allowing both job seekers and recruiters to discover and shortlist each other in real-time.
- Implemented **dynamic job recommendation, filtering, and search functionality** with real-time API integration.
- Built **secure authentication and profile management** using **JWT**, with separate dashboards for job seekers and recruiters, and **MongoDB** for persistent data storage.

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](#)