

Duppala Satwik

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Education

Indian Institute of Information Technology and Management

Integrated M.Tech in Information Technology

Nov 2023 – May 2028

- CGPA: 8.21

Technical Skills

Programming Languages: C, C++

Web Technologies: HTML, CSS, JavaScript, TypeScript

Frontend Development: React.js, Tailwind CSS

Backend Development: Node.js, Express.js

Databases: MySQL, PostgreSQL, MongoDB

API Tools: Postman

Version Control & Tools: Git, GitHub, VS Code

Coursework: Object-Oriented Programming (OOPS), Operating Systems, Computer Networks, Data Structures & Algorithms

Projects

BizNova - Business Management Platform with AI-Powered Assistant



Tech Stack: React.js, Tailwind CSS, Node.js, Express.js, MongoDB, OpenAI API

- Built a unified business management platform to digitize **sales, inventory, expenses, and customer orders**, replacing manual paper and Excel-based workflows used by MSMEs.
- Integrated an **AI-powered multilingual assistant** using the **OpenAI API** to enable text and voice-based business queries in English, Hindi, and Telugu.
- Implemented an **auto-sync workflow** where customer orders automatically generate sales entries, update inventory stock, calculate profit, and notify customers in real time.
- Developed interactive **analytics dashboards** to visualize profit trends, revenue growth, expense patterns, product-wise profitability, and customer purchase behavior.
- Designed RESTful backend services using **Node.js and Express.js** with **MongoDB** for reliable management of transactional, inventory, and customer data.
- Enforced **role-based access and input validation** to ensure secure data handling and prevent inconsistent or invalid business records.
- Optimized database queries and API responses to support **real-time updates** across dashboards, improving application responsiveness and scalability.
- Achieved a **90% reduction in manual data entry**, saving over 2 hours per day for retailers and enabling faster, data-driven business decisions.

Second Brain - Personal Link Management Web Application



Tech Stack: React.js, TypeScript, Tailwind CSS

- Enhanced a web application to **store and manage YouTube and Twitter links** for later reference, improving content organization and productivity.
- Built a responsive and user-friendly interface using **React.js and Tailwind CSS**, ensuring a consistent experience across devices.
- Executed **user authentication** to enable secure sign-in and personalized link storage for individual users.
- Designed a **Share Your Brain feature** that allows users to generate and share a public page containing their curated links.
- Applied structured state management and reusable components to ensure efficient data handling and smooth navigation.

Certifications

OpenAI x NextWave - India's Largest Generative AI Hackathon

[View Certificate](#)

Finalist & Award Recipient - Ranked in the **Top 10 teams out of 150+ teams**. Qualified through an online PPT screening round followed by an intensive offline 48-hour hackathon held in **Vijayawada**.

Problem Solving & Competitive Programming

- Solved **250+ algorithmic problems** on **LeetCode**, covering data structures, dynamic programming, graphs, and greedy techniques.
- Achieved a **1300 rating** on **CodeChef**, demonstrating consistent performance in competitive programming contests.