

Ayush Thakare

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Bhopal, MP

EDUCATION

- **VIT Bhopal University** Bhopal, MP
B.Tech in CSE (Cloud Computing and Automation); CGPA: 8.81/10.0 *Aug. 2022 – Present*

PROJECTS

- **Crave: Full-Stack E-commerce & Kitchen Ops Platform** Nov. 2025
MERN Stack, Redux, Socket.io, Stripe, Docker
 - **Atomic Order Sequencing:** Implemented transactional MongoDB logic (`findOneAndUpdate`) to guarantee unique, daily-resetting order numbers under high-concurrency loads, eliminating race conditions.
 - **Real-Time KDS:** Designed a Live Kitchen Display System using **Socket.io** to push instant status updates (Paid to Ready) to kitchen dashboards, reducing order throughput time by 20%.
 - **RBAC & Security:** Secured API routes using Role-Based Access Control (RBAC) for four distinct roles (Admin, Kitchen, Staff, User) and resolved complex CORS/Cookie issues for secure cross-origin communication.
 - **Loyalty Engine:** Developed a full-stack rewards system earning users 1 coin per 10 spent, resulting in a forecasted increase in user retention and repeat transaction volume.
- **SegmentPro - AI-Powered Customer Segmentation** Oct. 2025
React.js, Flask, Scikit-Learn, Pandas, Recharts
 - **ML Clustering:** Implemented the **K-Means Clustering** algorithm on a Flask backend to group customers based on unsupervised learning of transaction history.
 - **RFM Analysis:** Utilized Pandas and NumPy to perform advanced RFM (Recency, Frequency, Monetary) analysis, identifying high-value customer segments with precision.
 - **Data Visualization:** Integrated Recharts to render interactive scatter plots and dynamic dashboards, allowing stakeholders to visually explore clusters and derive actionable business insights.
- **Lumina - Next.js Code Snippet Manager** Nov. 2025
Next.js 14, TypeScript, Tailwind CSS
 - **Performance Optimization:** Leveraged **Next.js 14 App Router** and Server-Side Rendering (SSR) to reduce First Contentful Paint (FCP) by 35%, ensuring rapid load times for code retrieval.
 - **Modern UI/UX:** Built a responsive, type-safe interface using TypeScript and Tailwind CSS, featuring dynamic routing that seamlessly handled diverse user interactions.
 - **Efficiency:** Engineered a custom categorization system for snippets, reducing the average time-to-find for reusable code blocks by approximately 40% during development sprints.

TECHNICAL SKILLS

- **Languages:** C++, Python, JavaScript, SQL **Frameworks:** React.js, Next.js 14, Node.js, Express.js, Flask, Redux Toolkit
- **Tools/DB:** MongoDB, Git/GitHub, Vercel, Postman, Tailwind CSS **Concepts:** Data Structures, OOPS, DBMS, REST APIs, CI/CD

CERTIFICATIONS

- **Python Certification:** HackerRank
- **SQL Certification:** HackerRank
- **Full Stack Developer MERN:** SmartBridge
- **Introduction to Gen AI:** IBM

ACHIEVEMENTS

- **LeetCode:** Solved 250+ Data Structure and Algorithm problems.
- **GeeksForGeeks:** Completed 200+ coding challenges.
- **CodeChef:** Achieved 2-Star Coder rank (Max Rating: 1500+).