Komal Baid

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Education

VIT Bhopal University   Bhopal, India
B.Tech in Computer Science and Engineering — CGPA: 8.73   *2022 – 2026*

Technical Skills

Languages: C++, C, Python, JavaScript
Frameworks & Tools: React, Node.js, Express.js, TailwindCSS, MongoDB, Git, VS Code
Coursework: Data Structures and Algorithms, OOP, Operating Systems, DBMS, SQL, Computer Networks
Certifications: SmartBridge FullStack (MERN) MongoDB Developer, IBM-Adroit Generative AI

Experience

IgniteU Learning Ventures Pvt. Ltd.   Mar 2025 – Apr 2025
Software Development Intern   *Hybrid – Noida, Uttar Pradesh*

- Contributed to the development of a Student Performance Analytics Dashboard, a web-based tool for tracking learner engagement and outcomes.
- Built interactive visualizations in React (Chart.js) to highlight learning trends, reducing analysis time by 40%.
- Supported the deployment pipeline using Vercel, Render, and MongoDB Atlas, ensuring scalable cloud delivery.

Elevate Labs   Aug 2025 – Sep 2025
Web Development Intern — Best Performer   *Remote*

- Completed a 15-day intensive daily task track to strengthen core web development skills.
- Built "GitHub Explorer", a full-stack project leveraging REST APIs and MongoDB to analyze repositories and user profiles.

Projects

Prediction Market Exchange | *Next.js, Node.js, TypeScript*   **Sept 2025**

- Built a real-time trading platform for prediction markets with sub-second execution latency and scalable backend architecture.
- Designed a custom order-matching system and portfolio tracker inspired by options trading logic.
- Integrated AI-based market creation pipeline to automatically generate trending event markets.
- Implemented a secure authentication system with JWT, persistent user data storage, and live WebSocket updates.

Real-Time Focus Master – Productivity Web App | *React, TypeScript, TailwindCSS*   **Jan 2025 – Mar 2025**

- Built productivity app with Pomodoro timer, task tracker, and analytics dashboards.
- Optimized rendering using React.memo and enabled seamless state persistence with localStorage.
- Designed responsive UI with dark mode support and accessibility features.
- Integrated analytics to visualize trends in productivity and user engagement.

Driver's Drowsiness Detection System | *Python, YOLOv5, YOLOv8*   **Mar 2024 – Apr 2024**

- Developed real-time drowsiness detection using CNN-based YOLO models for facial feature tracking.
- Processed video streams with ML pipelines to detect eye closure and yawning in real-time.
- Trained and compared YOLOv5 vs YOLOv8 on custom dataset for performance benchmarking.
- Achieved 92% accuracy in detecting driver drowsiness under different lighting conditions.

Achievements

- **Problem Solving:** Solved 250+ problems on LeetCode improving proficiency.
- **Competitive Programming:** Achieved 1200+ rating on Codeforces (Pupil level).

Leadership & Extracurricular Activities

Cultural Committee – VIT Bhopal (Jan 2025 – Feb 2025): Core Team Member — led the planning and execution of cultural fest "AdVitya 2025" with 3000+ participants.