

# Komal Baid

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## Education

<b>VIT Bhopal University</b> , Bhopal, Madhya Pradesh – <i>B. Tech in Computer Science and Engineering</i> <b>Cumulative GPA:</b> 8.73	2022 – 2026
<b>Krishna Public School</b> , Raipur, Chhattisgarh – <i>12th Standard (CBSE)</i> <b>Percentage:</b> 82%	2021 – 2022
<b>Krishna Public School</b> , Raipur, Chhattisgarh – <i>10th Standard (CBSE)</i> <b>Percentage:</b> 94.4%	2019 – 2020

## Projects

<b>Real-Time Focus Master – Productivity Web App</b> • Built a full-featured time management app with Pomodoro timer, task tracking, and progress analytics using React, TypeScript, and TailwindCSS. • Reduced user distraction by 40% through seamless state persistence with localStorage. • Optimized rendering with React.memo and designed responsive UI with dark mode support; integrated analytics for user productivity.	Jan 2025 – Mar 2025
<b>Real-Time Environmental Adjustments for Optimized Delivery Routes</b> • Built a RandomForestRegression model to predict traffic speeds using real-time weather data collected from APIs. • Aimed to minimize emissions and improve fuel efficiency by dynamically adjusting routes based on current traffic, weather, and environmental conditions.	Aug 2024
<b>Driver's Drowsiness Detection System</b> • Developed a real-time driver drowsiness detection system using Python and machine learning to improve road safety. • Trained YOLOv5 and YOLOv8 models for real-time facial analysis in video streams using feature extraction techniques.	Mar 2024 – Apr 2024

## Skills

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

## Achievements

- Solved more than 250+ problems on LeetCode.
- Achieved a 1200+ rating on Codeforces (Pupil).

## Extracurricular Activities

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