

Komesh Phani Balaji Bathula

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SUMMARY

Computer Science student with strong expertise in Data Structures & Algorithms, having solved 1200+ problems across various platforms. Proficient in Java and experienced in building scalable full-stack applications using the MERN stack.

EDUCATION

Sri Vasavi Engineering College <i>Bachelor of Technology – Computer Science</i> <i>CGPA: 9.05 / 10</i>	Tadepalligudem, AP 2023 – 2027
N.R.I Junior College <i>Maths, Physics & Chemistry</i> <i>Percentage: 97.0%</i>	Eluru, AP 2021 – 2023
Sri Sarvani Public School <i>SSC</i> <i>Percentage: 99.0%</i>	Eluru, AP 2021

EXPERIENCE

NIT Andhra Pradesh <i>Product Development Intern</i>	Hybrid May 2025 – Present
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- Developed **iMentor**, an AI-powered Socratic tutoring system that guides students through concepts using adaptive questioning rather than direct answers.
- Fostered deeper conceptual understanding and critical thinking by replacing passive answer delivery with guided discovery-based learning.

PROJECTS

LearnTrack-YT <i>React.js, Express.js, MongoDB, Groq API (Llama-3)</i> - Built an AI-powered YouTube LMS that generates video summaries in 3 detail levels and 3 regional languages using Llama-3, with a GitHub-style learning activity heatmap. - Secured user data with Google OAuth 2.0 and JWT, enabling persistent personalized notes and study streak tracking across playlists. Link: learntrack-yt
Tourist Safety System <i>Python, Scikit-Learn, Pandas, NumPy</i> - Trained a Random Forest classifier on the GeoLife dataset (17,621 trajectories, 182 users) achieving 83.2% accuracy and 0.908 ROC AUC for GPS-based tourist risk classification. - Built an early-warning subsystem predicting tourist risk within 30 minutes, correctly alerting 55.2% of at-risk trajectories with 90% accuracy in real-time simulation. Link: tourist-safety-system
EduSync AI <i>React.js, Node.js, MongoDB, Groq API (Llama-3.3)</i> - Developed an intelligent adaptive learning platform generating AI quizzes from PDFs and YouTube videos, featuring automated weakness detection and personalized learning paths. - Engineered a hybrid risk-prediction engine (ML + Heuristics) and an “Ultra-Strict Exam Mode” to identify high-risk students and enforce academic integrity in real-time. Link: EduSync AI

TECHNICAL SKILLS

Programming: C, Java, Python
Frontend: HTML, CSS, JavaScript
Frameworks: React.js, Express.js, Next.js
Databases: SQL, MongoDB
Tools: Git, VS Code
Coursework: Data Structures & Algorithms, OOP, Computer Networks, Operating Systems, DBMS

ACHIEVEMENTS & CERTIFICATIONS

MongoDB Certified Developer Associate (Java): Score – 93%	2025
Microsoft Azure Fundamentals (AZ-900): Score – 952 / 1000	2026

ACTIVITIES

Secretary – Microsoft Learn Student Club (SVEC) <i>Leadership role managing technical events and student initiatives.</i>	2024 – 2026
Coordinator – Tech Euphoria Fest 2K25 <i>Coordinated department-level technical fest activities.</i>	2025
Anchor – Freshers’ Party, Sri Vasavi Engineering College <i>Hosted the annual Freshers’ Party for the incoming batch.</i>	2024