

Vislavath Vishal Raj
Full Stack Developer | AI Enthusiast
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PROFESSIONAL SUMMARY

Motivated and innovative Computer Science undergraduate with hands-on experience in full-stack development, IoT systems, and AI integration. Proficient in building edge-computing and automation solutions for real-world problems. Adept at leading team-based technical projects, participating in hackathons, and delivering impactful results under time constraints.

TECHNICAL SKILLS

- Languages: Python, JavaScript, C++
 - Web: HTML5, CSS3, React.js, Node.js, Express.js
 - Databases: MongoDB, MySQL, PostgreSQL
 - Tools: Git, GitHub, Vercel, Edge Impulse, Arduino IDE
 - Concepts: IoT, Edge AI, Full-Stack Development, AI-Driven UI, Avatar Animation
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SOFT SKILLS

- Team Collaboration
 - Communication
 - Problem Solving
 - Adaptability
 - Time Management
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EDUCATION

Keshav Memorial Institute of Technology – Hyderabad, Telangana
B.Tech in Computer Science — Graduation: Aug 2027

EXPERIENCE

IoT-Based Voice-Enabled Home/Office/Hotels/Outdoor Automation
Tech Stack: MERN, Edge Impulse

- Developed a voice-activated smart automation system for controlling lights, fans, appliances, and security systems.
- Engineered an edge-computing pipeline using Edge Impulse for offline voice recognition, achieving >85% command accuracy during demos.
- Recognized for innovation and received certification.

AVATARLAB – Building Smart & Realistic AI Avatars

Tech Stack: MERN, DiffDub, Small-E

GitHub: <https://github.com/VVR-008/AvatarLab-G331-PS25>

- Built a complete pipeline to generate lifelike talking head videos from text input, enabling avatar responses in under 3 seconds.
- Integrated DiffDub for facial animation and Small-E for expressive speech synthesis with over 90% lip-sync accuracy.
- Optimized AI models on RTX 4090 GPU, reducing inference time by 40%.
- Explored applications in digital media, education, and virtual assistants.
- Successfully deployed and certified.

CERTIFICATIONS

- Certificate of Completion – IoT-based Voice Enabled Automation
- Certificate of Completion – AVATARLAB AI Avatar Generation

EXTRA-CURRICULARS / LEADERSHIP

- Team Lead – AVATARLAB Project (GenAI category)
- Participant – *Codenovate 2024* Hackathon, conducted by Recurse (Technical Club of KMIT)
- Languages: English, Telugu, Hindi