

# Vislavath Vishal Raj

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## CAREER OBJECTIVE

Aspiring to contribute to cutting-edge projects in AI, machine learning, and embedded systems by leveraging my experience in voice-controlled automation and avatar generation. Looking for an opportunity to learn, innovate, and help build intelligent solutions that make everyday life easier.

## EDUCATION

**B.Tech, Computer Science & Engineering**  
Keshav Memorial Institute of Technology

2023 - 2027

## TRAININGS / CERTIFICATIONS

### Electronic Arts - Software Engineering Job Simulation

Jul 2025

Forage, Virtual

Completed a real-world virtual job simulation focused on front-end engineering challenges at Electronic Arts.

- Built server-side rendered (SSR) and static (SSG) web pages using Next.js
- Integrated RESTful APIs and implemented responsive UI components
- Developed unit and integration tests using Jest and Cypress
- Improved accessibility, optimized UI/UX, and applied Agile workflows
- Strengthened core skills in React, TypeScript, and modern web development practices

### Forage AI-Powered Data Analytics Simulation Certificate

Jun 2025 - Jul 2025

The Forage, Virtual

Completed a data analytics simulation using AI tools to drive decision-making in financial services.

- Analyzed large datasets to extract actionable insights and debt collection strategies
- Applied AI-driven analysis techniques to enhance business outcomes
- Practiced data storytelling and reporting to support strategic planning
- Strengthened understanding of AI integration in business intelligence

## PORTFOLIO

[GitHub link ↗](#)

## PROJECTS

### Accenture Nordics - Software Engineering Job Simulation

Jul 2025

The Forage, Virtual

Participated in a back-end focused simulation replicating real-world client tasks in software engineering and cybersecurity.

- Debugged production-level Python code to resolve critical logic errors
- Analyzed and corrected a flawed binary search algorithm
- Integrated backend logic into JavaScript-based web interfaces
- Applied the NIST Cybersecurity Framework to evaluate access controls and security maturity
- Gained exposure to enterprise-grade development and auditing practices

AVATARLAB – Building Smart & Realistic AI Avatars



Jan 2025 - Jun 2025

- 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.

SKILLS

- |                      |                 |                            |
|----------------------|-----------------|----------------------------|
| • HTML               | • CSS           | • JavaScript               |
| • Node.js            | • React         | • Artificial intelligence  |
| • Project Management | • Next.js       | • ESP32                    |
| • Arduino            | • Python        | • C Programming            |
| • CSS3               | • Express.js    | • MongoDB                  |
| • MySQL              | • PostgreSQL    | • Git                      |
| • GitHub             | • Vercel        | • Internet of Things (IoT) |
| • Web development    | • Collaboration | • Effective Communication  |
| • Problem Solving    | • Adaptability  | • Time Management          |

EXTRA CURRICULAR ACTIVITIES

- Team member - AVATARLAB Project (GenAI category)
- Participant - Codenovate 2024 Hackathon, conducted by Recurse (Technical Club of KMIT)

IoT-Based Voice-Enabled



Aug 2024 - Feb 2025

- 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.