

# GELLA HARSHA VARDHAN

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Results-driven Software Engineer with proficiency in full-stack development, cloud technologies, AI & ML, and Generative AI. Have experience in developing full-stack applications and achieved 5th place out of 5000 participants in NeoCodeThon, showcasing strong problem-solving skills and innovative thinking. Strong analytical and problem-solving skills, with a proven ability to work collaboratively in fast-paced environments.

## EDUCATION

### B.Tech in Artificial Intelligence & Data Science

May 2022 - May 2026

Koneru Lakshmaiah Education Foundation, Vijayawada, India

GPA: 9.7/10

### Intermediate (MPC)

May 2020 - May 2022

Sri Viswa Junior College, Visakhapatnam, India

GPA: 9.4/10

## SKILLS

**Programming Languages:** C Language, Python, Java

**Backend FrameWorks:** Flask, Fast API

**AI & ML:** Machine Learning, Deep Learning, TensorFlow, LangChain

**Database:** MongoDB, SQL

**Cloud:** AWS, GCP

## WORK EXPERIENCE

### ML Summer School

Jul 2024 - Aug 2024

Amazon

Remote

- Selected among the top 10% of applicants for the highly competitive **Amazon ML Summer School 2024**.
- Gained hands-on experience in practical ML applications through real-world problem-solving sessions.
- Recognized for active participation with **exclusive Amazon goodies**.

## PROJECTS

### Event Management System [↗](#)

**Tech Stack:** React.js, Flask, MongoDB, Tailwind CSS

**Problem Statement:** University clubs lacked an efficient system to manage events, track participation, and reward engagement across both technical and non-technical events.

#### Solution:

- Developed a centralized hub for university clubs to host, manage, and promote events across domains.
- Implemented a points-based system to track participant engagement across **tech and non-tech** events.
- Designed modular dashboards for **Users**, **Admins**, and **SuperAdmins** with role-specific functionalities.
- Enabled real-time attendance marking and event analytics to replace manual tracking.
- Optimized **MongoDB performance by 50%** using indexing and efficient query design.

### AI-Powered Serverless Diagramming Tool [↗](#)

**Tech Stack:** React.js, AWS Lambda, Graphviz, Cognito, S3, DynamoDB, Amplify, DeepSeek LLM

**Problem Statement:** Existing diagramming tools are rigid, requiring time-consuming manual design. Users needed a more efficient way to instantly generate and customize technical diagrams from natural language.

#### Solution:

- Developed a serverless web app that generates **ER, UML, and flowchart diagrams** from natural language prompts with **90%+ accuracy** using DeepSeek LLM.
- Integrated **Graphviz** for high-quality SVG rendering, ensuring fast and dynamic diagrams.
- Utilized AWS Lambda, API Gateway, and DynamoDB for scalable, real-time processing, ensuring low-latency responses.
- Implemented OTP-based authentication using Amazon Cognito and **JWT-secured API routes** for secure access and data integrity.
- Built a responsive UI with React.js and Tailwind CSS, deployed via AWS Amplify with **CI/CD** to achieve **sub-2s** response times.

## CERTIFICATIONS

TensorFlow Developer [↗](#) by Google

Python Programming [↗](#) by IBM

Problem Solving through Programming in C [↗](#) by NPTEL

## AWARDS

### 5th position in the NeoCodeThon Contest among 5000 participants by NeoPat

- Solved 3 out of 4 coding problems in the prelims round.
- Solved 3 out of 5 coding problems in the final round.