# Ruparaju Sri Sai Deepika

B.Tech - (2022-Present)
Computer Science Engineering
Gitam University

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## EDUCATION

| Degree/Certificate | Institute/Board | CGPA/Percentage | Year |
|---|---|---|---|
| B.Tech. CSE | Gitam University | 8.2 | 2022-Present |
| Senior Secondary | Bieap Board | 74.6% | 2020-22 |
| Secondary | SSC Board | 10.0 | 2020 |

## EXPERIENCE

- **Summer Intern (Remote), IIT Tirupati Navavishkar I-Hub Foundation (IITTNiF)** *May 2025 – Present*
  *3D Terrain Modeling and Flood Simulation using LiDAR Data*
  - Developed high-resolution 3D terrain models from 2D LiDAR point cloud data using tools such as CloudCompare, TerraExplorer Pro, Skyline PhotoMesh, ArcGIS, and QGIS.
  - Processed and meshed raw LiDAR datasets to create accurate digital elevation models (DEMs) and surface meshes for realistic 3D visualizations.
  - Currently conducting flood analysis simulations on generated 3D models to assess inundation risk and support disaster management planning.
  - Integrated GIS workflows with point cloud processing for spatial accuracy and scenario-based flood impact visualization.

- **Intern, IIT Tirupati** *May 2024 – July 2024*
  *System for Visual Group Attendance involving Deep Learning methods and Web Technologies*
  - Developed a deep learning–based system for automated group attendance detection using facial recognition and web technologies.
  - Integrated computer vision models for face detection with a user-friendly web interface to streamline attendance management.
  - Ensured reliable performance and real-time accuracy across varied lighting and camera conditions.

- **Intern (Remote), CODSOFT** *May 2024 – June 2024*
  *Java Programming Internship*
  - Completed a 4-week remote internship focused on core Java programming concepts and hands-on implementation.
  - Built mini projects to demonstrate OOPs, exception handling, file handling, and basic GUI using Java Swing.
  - Submitted evaluated tasks and received completion certificate for performance and participation.

## PROJECTS

- **WeatherScope Dashboard**
  *HTML, CSS, JavaScript, Leaflet.js, OpenWeatherMap API* Github
  - Developed a responsive web application featuring an interactive world map for real-time weather data exploration using OpenWeatherMap API.
  - Implemented city search with autocomplete, browser geolocation, and dark/light mode toggle to enhance user experience.
  - Designed a clean and responsive UI optimized for desktop and tablet screens, with fluid map resizing and accessible controls.
  - Integrated country flags dynamically alongside weather information for better context and presentation.

## TECHNICAL SKILLS

- **Programming**: C/C++, Python(familiar),Java
- **Development**: HTML, CSS, JavaScript
- **Databases**: MySQL, MongoDB (familiar)
- **CS Subjects**: Data structures and Algorithms, OOPs concepts, Operating system

## CERTIFICATIONS

- **Microsoft**,Introduction to GitHub
- **Cisco Networking Academy**,Data Analytics Essentials
- **Accenture (Forage)**,Data Analytics and Visualization Job Simulation
- **OneRoadmap**,Data Analyst
- **Deloitte (Forage)**,Data Analytics Job Simulation
- **CognitiveClass.ai**,Python 101 for Data Science
- **Forage**,Data Visualisation: Empowering Business with Effective Insights
- **Cisco Networking Academy**,Introduction to Cybersecurity