

# RANGA PRASAD ALUMOLU

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## Profile Summary

To pursue a highly rewarding career, seeking for a job in a challenging and healthy work environment where I can utilize my skills and knowledge efficiently for organizational and personal growth.

## Education

**NRI Institute of Technology (B.TECH-ECE)**

**Nov 2021 – Apr 2025**

CGPA: 8.0

**Narayana Junior College (Intermediate-MPC)**

**June 2019 – Apr 2021**

CGPA: 9.4

**Sree Ram High School (SSC-10th)**

**May 2018 – Mar 2019**

GPA: 10.0

## Technical skills

**Programming Languages:** Python , C , OOPS(Object-Oriented Programming) , Java

**Database:** MySQL

**Tools / API integration :** Git, Git hub

**Web Technologies:** HTML , CSS , JavaScript, Flask

**Developer Tools:** MATLAB, Xilinx Software, Micro Wind, Arduino IDE, VS Code

## Internships

**Web Development -Intern (BIST Technologies Pvt Ltd)**

**Oct 2024-Apr 2025**

- Gained hands-on experience in core web technologies including HTML, CSS, JavaScript, and responsive web design principles.
- Built dynamic and user-friendly web pages, with exposure to front-end frameworks and version control tools like Git.
- Gained Knowledge that how it establishes in real time projects and got experience on this technologies and their working structure.

**Embedded Systems -Intern (Grantley Edutech Pvt Ltd)**

**Oct 2024-Dec 2024**

- Gained a strong understanding of key embedded systems concepts, including microcontroller architecture, sensor integration, and communication protocols.
- Gained proficiency in C and Python for embedded applications, contributing to code development, debugging, and optimization.
- Identified and resolved technical challenges in hardware and software integration, enhancing system reliability and efficiency.

**Machine Learning -Intern (BIST Technologies Pvt Ltd)**

**May 2024-Jul 2024**

- Developed machine learning models to analyze data patterns and make predictions
- Assisted in data preprocessing and feature selection for model training.
- Contributed to the deployment of machine learning applications in real-world scenarios.

**Signals and Telecommunications -Intern (South Central Railway, Vijayawada)**

**May 2023-Jul 2023**

- Assisted in the implementation of signal processing techniques for railway communication systems.
- Conducted tests and analyses to improve the reliability of communication networks.
- Collaborated with engineers to troubleshoot and optimize communication signals.

**Two days Workshop on PCB Designing**

**Oct 2022**

- Participated in a comprehensive 2-day PCB Designing Workshop, gaining hands-on experience in circuit design and layout techniques.
- Engaged with industry-standard software tools, learned best practices for efficient PCB design, and collaborated with peers on practical projects.

## Projects

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### Automated ECG Analysis for Cardiovascular Disease Prediction using Deep Learning

- Utilized machine learning and deep learning algorithms (CNN, KNN, RNN) to predict heart disease based on ECG graph data.
- Developed and compared the performance of three machine learning models to determine the most accurate algorithm for heart disease prediction.
- Implemented data preprocessing techniques to extract relevant features from ECG graphs.
- Evaluated and analyzed the accuracy of each model, providing insights into the strengths and limitations of each approach.

## Certifications

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### WIPRO Certificate / Java Full Stack

Oct 2024

- Successfully completed the Talent Next course on Java Full Stack, gaining hands-on experience in end-to-end web application development using Java, Spring Boot, Angular, and related technologies.

### Hacker Rank Certificate / Python (Basic)

July 2024

- Demonstrating proficiency in fundamental Python concepts and problem-solving skills and coding expertise through completion of challenging coding exercises.

## Co-Curricular Activities

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- Secured Participated certificate in Puzzle Tracking in A One Day National Level Technical Fest "SUNRISE-2K22" conducted in NRIIT.
- Participated in "The Young Indians Future 3.0" and got a certificate conducted in NRIIT.
- Participated in Technical Quiz conducted by IETE in NRIIT.
- Successfully cleared the assessment in the job role/qualification "Junior Software Developer" of Duration 450 hours and earned 15 Credits with A Grade at NRI Institute of Technology