

# Raja Balaji N

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## SUMMARY

As a dedicated student passionate about the intersection of data science, machine learning, and emerging technologies, I am actively acquiring the skills and knowledge necessary to excel in these dynamic fields. Currently immersed in a comprehensive learning journey, I am mastering tools and techniques for data analysis, machine learning, and algorithm development using Python. Additionally, I am exploring various data-related fields and continuously expanding my understanding of the tools and technologies in this domain. Eager to apply my evolving expertise, I am seeking opportunities to contribute to innovative projects and leverage my growing proficiency in these transformative technologies.

## EDUCATION

### Sri Krishna College of Engineering and Technology

Bachelor of Technology in Computer Science and Business Systems. CGPA: 8.32

Tamil Nadu, India

Sep 2022 – May 2026

### Mary Matha School

- HSC: Percentage: 91.33
- SSLC: Percentage: 98.6

Tamil Nadu, India

May 2022

May 2020

## SKILLS SUMMARY

- **Languages:** Python, C++, SQL
- **Frameworks:** Pandas, NumPy, Matplotlib
- **Tools:** Excel, PowerPoint, MySQL
- **Platforms:** Visual Studio Code, Jupyter Notebook
- **Soft Skills:** Team management, Leadership, Critical Thinking

## PROJECTS

### Reimann Calculator | [Link](#) | Tech Stack: Python, Pandas, NumPy, Jupyter Notebook

Jun 2023 – Apr 2024

- A **Riemann** sum is an approximation of a region's area, obtained by adding up the areas of multiple simplified slices of the region. It is applied in calculus to formalize the method of exhaustion, used to determine the area of a region.

### Rock vs Mine | [Link](#) | Tech Stack: Python, Scikit-learn, Pandas, NumPy, Jupyter Notebook

May 2024 – Jun 2024

- Developed a ML model to classify underwater objects as rock or mine using SONAR data, enhancing safety in submarines and underwater exploration.

## CERTIFICATIONS

- Learning C | LinkedIn Learning Nov 2022 – Jan 2023
- Data Structures and Algorithm Using C++ | LinkedIn Learning Mar 2023 – May 2023
- Python | [YouTube](#) Jun 2023 – Aug 2023
- MongoDB | Online Course ([MongoDB](#)) Jun 2024 – Now
- Python for Data Science | Coursera Apr 2024 – Now

## PATENTS

### RECOGNI MEMORY COMPANION: Application No.: 202441032070 A

Is an innovative system designed to enhance memory assistance. It utilizes advanced technology for real-time memory support, ensuring efficient recall and information management to improve cognitive functions and daily activities.

## ACHIEVEMENTS & PARTICIPATION

- **Hackathons:** Contributed to the exploration of innovation in the medical field by securing **3rd place** in the **Medcure Hackathon** held at **IIT Madras**
- **Coding Contest:** Actively participated in coding contests on platforms such as [LeetCode](#) and [CodeChef](#)
- **Workshop:** Attended workshops on **Data Science and Machine Learning** conducted at PSG Tech.