

# RAJA SIMHA REDDY. B

[in LinkedIn](#) | [GitHub](#) | [Leet Code](#) | [+91 9014297131](#) | [✉ rajasimhabolla@gmail.com](#) | [Kaggle](#)

## Education

**Bachelor of Science** **BMS COLLEGE OF ENGINEERING (KA)** **06/2023 - 06/2027**

Pursuing a Bachelor's degree in **Computer Science and Engineering CSE** with a current **CGPA of 9.1**.

**PUC** **Narayana jr college (AP)** **03/2021 - 04/2024**

Completed PUC **with 97.4%** with specialization in **Mathematics, Physics, and Chemistry**.

## Skills

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

**Technologies** : Data Science , Gen Ai, Full stack development

**FrameworksTools** : TensorFlow, PyTorch, LangChain, Django, Next.js, SwiftUI, Git

**Software Development** : Agile Methodologies, API Development

**Databases** : SQL, Firebase, MongoDB

**Soft Skills** : Collaboration, Problem-solving, Analytical thinking, TeamWork, Supportive

## Professional Experience

### Pinoxio:(current)

- Designed and implemented **AI-powered agents** for complex tasks like **tutoring**, enabling personalized learning experiences.
- Applied **Reinforcement Learning (RL)** to enhance interactivity, making AI agents achieve **human-like Tutoring** which increases avg **students engagement by 7%** .
- Collaborated with senior dev's to design and implement an end-to-end audio processing pipeline using open-source models.
- Achieved an impressive **average latency of 0.3 seconds** on small edge devices, optimizing for performance and efficiency

### Code-Alpha: (03/2024)

- Collaborated with a team of 4 to develop and deploy an **e-commerce** website, optimizing the back-end .'
- Integrated **ML-based product recommendation system**, increasing user engagement

## Projects

### Sophia-AI-Powered News Teller

Developed a web app using Flask and Next.js to summarize news and create audio podcasts.And also Integrated Gemini and Azure voice for dynamic podcast Generation and deployed on Azure for scalability.**Decreased latency by (50s )**.

### Student Mentoring Platform

- Built a personalized learning tool using Gemini 1.5 to generate assignments and quizzes based on curriculum.
- Focused on enhancing engagement with AI-driven feedback.

### Women's Safety Monitoring System

- Created an app using machine learning to detect anomalies and monitor individuals in real-time.
- Designed AI-based safety reviews with minute-by-minute updates.Anomaly detection **increased accuracy by 4%**

## Achievements

### Bharatiya-Anthariksha-Hackathon (ISRO) - (AUG 2024)

Created Developed a Digital Twin model for reducing traffic congestion, featuring route optimization and traffic.

Secured top 30 positions in India.

### Byte Battle - (June 2024)

Secured 1st place in Byte Battle at BMSCE for exceptional performance in solving advanced DSA prob under time con.

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## Open-Source Contribution, LeetCode (2024)

Contributed to Hugging Face Transformers and Care\_fe

Solved more than 180 problems in leetcode.

## Certifications

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- [CS50-X](#) , [CS50-SQL](#) , [CS50-Web](#): Finished Harvard University's rigorous online course (**24.1% pass rate**) covering problem-solving, data structures, SQL, and web development. **(01/2024 - 04/2024)**
- [Machine Learning](#) , [Deep Learning](#) , [Gen-Ai](#) Completed Andrew Ng's Machine Learning course with practical application of ML and Deep Learning models. Hands on experience in developing and implementing ML models, Building a strong curiosity for advanced machine learning techniques. **(03/2024 - 09/2024)**
- [Qubit by Qubit \(IBM\)](#) Qubit by Qubit program offered by IBM, covering quantum computing concepts, Mathematics **(2020)**

## Relevant Technical Exposure

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Software Development: Full-stack web development, API integrations, Microservices

- Cloud & Big Data: Azure cloud deployment, Data Warehousing, Scalable computing
- AI & ML: NLP, Computer Vision, Generative AI, Model Fine-Tuning, Reinforcement Learning

*(All remaining projects, as well as those mentioned, are available on GitHub and LinkedIn for review and collaboration)*