

R Bharath

☎ +91 9392022657 · ✉ bharath.rajupeta@gmail.com · in [linkedin.com/in/bharath-rajupeta-229a59277](https://www.linkedin.com/in/bharath-rajupeta-229a59277)

Education

Vellore Institute of Technology, Chennai, B.Tech in CSE(AI&ML)
CGPA: **9.13**

Expected 2026

Accord School, Tirupati, Higher Secondary School
Percentage: **90%**

2020 – 2022

Technical Skills

Languages: Java, C, C++, HTML, CSS, JavaScript, SQL

Technical Skills: DSA, Cloud Computing, Web Development, Machine Learning, Deep Learning, Unity

Projects

Serverless Text-to-Audio Conversion Platform with AWS Polly and S3

[GitHub Link](#)

- Developed a serverless platform using AWS Polly, S3, Lambda, API Gateway, and Amplify to convert text to MP3 audiobooks, ensuring 100% success in audio generation with secure IAM configurations.
- Built a scalable backend and user-friendly frontend with AWS Amplify, enabling efficient text-to-speech conversion.

Strassen Nets: Revolutionizing Matrix Multiplication for Enhanced Neural Network Performance

- Co-developed Strassen Nets, a GPU-accelerated method using the Strassen algorithm and CUDA, achieving up to 1.41x speedup for 8192x8192 matrices in neural networks.
- Optimized matrix operations by leveraging shared memory and cache systems, reducing memory access latency and improving computational efficiency on GPU platforms.

Sentiment Analysis using Natural Language Processing

- Built an NLP-based tool to analyze sentiment polarity of tweets, enabling insights into public opinion through reliable classification.
- Implemented preprocessing, feature extraction, and classification to enhance social media analytics.

Certifications

• AWS Certified Cloud Practitioner

Earned certification demonstrating foundational knowledge of AWS cloud services, architecture, and best practices.

• AWS Certified Solutions Architect – Associate

Achieved certification showcasing proficiency in designing and deploying scalable, cost-effective solutions on AWS cloud infrastructure.

• NVIDIA Certified Fundamentals of Accelerated Computing with CUDA C/C++

Certified in GPU programming and parallel computing optimization, highlighting expertise in CUDA C/C++ for accelerated computing tasks.

• ISET Certificate for Strassen Nets

Awarded a certificate for the publication and presentation of Strassen Nets.

Extra-Curricular Activities

- Played as an all-rounder in the college cricket team, contributing to multiple trophy wins in inter-college tournaments.
- Coding Enthusiast: Solved 200+ LeetCode problems and completed the 100 Days Coding Challenge, earning multiple badges.