# Ajith Kumar Adluri

2-5-703, Warangal, Telangana, India | ajithhk.online@gmail.com | +91 8328455335 |
linkedin.com/in/ajithkumar | github.com/in/ajith

## Overview

A driven and committed third-year **Computer Science Engineering** student with a strong interest in **software development, system design**, and **innovative technologies**. Proficient in **C, Java, and Python**, with a solid foundation in building **efficient and scalable applications**. Actively engaged in impactful academic projects that reflect a practical approach to solving real-world problems. Thrives in **fast-paced, collaborative environments** and enjoys seeing ideas through from concept to completion. Eager to contribute to teams focused on **pushing technology forward** while continuously learning and growing in the field.

## Key Competencies

| | | |
|---|---|---|
| Resilience | Agile Methodologies | Collaboration & Teamwork |
| Strategic Thinking | SQL, DBMS | Effective Communication |
| Software Development | Cloud Computing | Code Optimization |
| Data Analytics | Project Management | Cross-Platform Development |
| Python, C, and Java Programming | Distributed Systems & Networking | Continuous Learning & Innovation |

## Education

**SR University**, Bachelor of Technology in Computer Science — Sept 2022 – Aug 2026

- GPA: 9.2/10.0
- **Coursework:** Computer Architecture, Embedded Systems, DSA, Software Engineering, Machine Learning

**Shine High School**, Matriculation — June 2020

- GPA: 10.0/10.0

## Significant Experience

**AI-ML Virtual Internship**, **Google** — Oct 2024 – Dec 2024

- **Developed and optimized AI/ML models** for embedded systems, enhancing performance on resource-constrained devices using **TensorFlow Lite** and **Edge AI**
- **Collaborated with Google engineers** to integrate machine learning models with embedded hardware, ensuring real-time data processing and system efficiency
- Contributed to optimizing **firmware for IoT devices**, focusing on reducing latency and improving energy efficiency

**Android Developer Virtual Internship**, **Google** — July 2024 – Sep 2024

- Completed the AICTE Android Developer Virtual Internship, gaining valuable hands-on experience in **Android**

**app development** using **Java** and **Kotlin**

- Refined **coding and debugging skills**, tackling complex problems with innovative solutions, and enhanced effective communication through collaborative virtual teamwork and presentations

**Best IP reporter award**, **SR University** Nov 2024

- Recognized as the **Best IP Reporter** for exceptional reporting and insightful analysis at Model United Nations (MUN)
- **Conducted in-depth research** on complex topics, producing well-structured and insightful articles that resonated with delegates and attendees
- Demonstrated strong **communication and collaboration** by working closely with delegates and team members to ensure accurate and timely reporting

## Projects

**Titanic survival prediction model** Aug 2024

- Developed a **machine learning model** to predict Titanic survival using passenger data, leveraging **logistic regression** and **random forests**, achieving a **25% increase in prediction accuracy**
- Applied **data preprocessing** and **feature engineering** techniques, optimizing the model to achieve a **12% improvement in prediction performance**, using evaluation tools like cross-validation and confusion matrices
- Gained hands-on experience in **machine learning workflows**, from data processing to model deployment, enhancing expertise in AI and data-driven decision-making
- Tools Used: NumPy, Pandas, Matplotlib

**EEG-Based Speech Imagery Classification** Jan 2025

- **Implemented** an **LSTM-based deep learning model** to classify **EEG signals** from a Telugu language BCI dataset, enabling accurate distinction between vocalized and subvocalized speech patterns in neurodegenerative patients across **100+** recording sessions.
- **Preprocessed and structured EEG data** from both male and female subjects, applying feature extraction techniques to optimize the dataset for LSTM training and **improved model accuracy by 27%**
- **Currently refining model performance** and preparing for publication, with ongoing evaluation using metrics like accuracy and recall to contribute to advancements in BCI research for Telugu-speaking patients
- Tools Used: TensorFlow/Keras, Scikit-learn, Python

## Skills and Interests

**Languages:** English, Telugu, Hindi, French, Spanish

**Hobbies:** Stock-market analysis, Coding, Tech Blogs, Table Tennis, Gaming, Yoga, Business Podcasts