

AREPALLI JAYA SREEKAR

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EDUCATION

AMRITA SCHOOL OF ENGINEERING

Bachelor of Engineering

Major in Electronics And Computer Engineering

Cumulative GPA: 7.41/10

Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Artificial Intelligence, Machine Learning.

Bengaluru
Expected May 2025

SRI CHAITANYA JUNIOR COLLEGE

Telangana State Board of Intermediate Education

Percentage: 95.7%

Hyderabad
2019 – 2021

SRI CHAITANYA TECHNO SCHOOL

Board of Secondary Education

Cumulative GPA: 9.8/10

Hyderabad
June 2019

UNIVERSITY PROJECTS

INDIAN ENGLISH SPEECH ACCENT RECOGNITION

Aug 2024

- Built an **Indian English Accent Recognition System** using ML models (XGBoost, CNN-LSTM) to classify accents from 8 Indian states, achieving **90.02%**.
- Utilized **Indic TTS database (IIT Madras)** with **68,169 audio samples** across 16 accent categories, preprocessed and augmented for robust training.
- Extracted **MFCC features** and trained models like SVM, Random Forest, and XGBoost, with **stratified 10-fold cross-validation** for evaluation.

REAL – TIME ATTENDANCE SYSTEM USING MACHINE LEARNING

Jan 2024

- Developed an **AI-driven attendance system** using **Haar Cascade** for face detection and **ResNet-50** for feature extraction, achieving **100% accuracy** in normal conditions and **91.6%** in occlusion/low-light scenarios.
- Captured face images via webcam, preprocessed using **dlib** for 68 facial landmarks, and stored in an **SQLite database**. Extracted **128 unique facial features** using ResNet-50 for training and matching.
- Automated attendance tracking with real-time face recognition, supporting **multiple faces** and **video processing**. Integrated a **Flask web app** for attendance reports, enhancing efficiency in educational and corporate settings.

OPTIMIZING ROUTE OF TRANSMISSION WIRES

Oct 2023

- Visualized original and optimized wire routes with NetworkX and Matplotlib for clearer insights.
- Reduced transmission wire loss by over 15 percent through optimal placement of transformers using bipartite graph coloring.

ACTIVITIES

THE QUIZ CLUB ASEB

President

Bengaluru
2023 – 2024

- Elected as Club President. Led a team of 30+ members. Increased the membership by 30% by the end of my term
- Managed and Coordinated 16+ events in multiple categories. Hosted the biggest quiz event in our college during DAASTAN fest in 2023

ELECTRONICS COMMUNICATION AND COMPUTER FORUM ASEB

Senior Executive

Bengaluru
2023 – 2024

- Organized and conducted 10+ technical events and boosted student participation through creative activities.

ADDITIONAL

Technical Skills: Advanced in SQL, PHP, Javascript, HTML/CSS; Proficient in MATLAB, Python, Java, DBMS, NLP, Operating Systems.

Libraries: Numpy, Pandas, Matplotlib, Scikit-learn, BeautifulSoup, Selenium,

Languages: Fluent in French, English; Conversational Proficiency in Telugu, Hindi, Kannada.

