

# RACHAPALLI VENU

Hyderabad Telangana

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## Education

### CMR Engineering College

*Bachelor of Technology in Computer Science and Engineering CGPA (7.80/10)*

**May 2020– May 2024**

*Hyderabad, Telangana*

### TSWR COE Karimnagar

*Intermediate (874/1000)*

**June 2018– March 2020**

*Karimnagar, Telangana*

### TSWREIS BOYS SCHOOL Manakondur

*SSC (9.3 /10)*

**June 2017– March 2018**

*Karimnagar, Telangana*

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture

## Projects

### Secure and Efficient Data Transmission for Cluster-Based Wireless Sensor Networks

**April 2023**

- **Drawbacks of Existing System** : Did not use select skyline with minimum attribute sum technique. Slow data processing due to lack of optimization in data partitioning.
- **Proposed System** Secure skyline queries on encrypted data, crucial for multi-criteria decision making.
- **Key Components**: Secure dominance protocol for skyline queries and other query types. Optimizations including data partitioning and lazy merging to reduce computation load..
- **Advantages of Proposed System**: Fully secure dominance protocol used as a building block for various queries and Optimized data processing through secure skyline query protocols.

### Active Online Learning for Social Media Analysis to Support Crisis Management

**April 2024**

- Implemented an Active Online Multiple Prototype Classifier (AOMPC) using both labeled and unlabeled data, enhancing data classification accuracy during crises.
- Leveraged machine learning algorithms, including Naive Bayes and TF-IDF vectorization, for text classification and feature extraction from social media posts.
- Created a user-friendly graphical interface using Tkinter for easy dataset upload and interaction.
- Enhanced crisis management efficiency by automating the classification of social media data, reducing reliance on manual analysis.
- Delivered a robust solution for analyzing social media data during crises, aiding timely decision-making and improving crisis response effectiveness. .
- Proposed the inclusion of multilingual and multimedia content handling, real-time data integration, and advanced sentiment analysis techniques

## Technical Skills

**Languages**: Python, Java, C, HTML/CSS, DBMS

**Developer Tools**: VS Code, Eclipse

**Certifications**: Spoken tutorial Python,Html,Advanced C++ from **IIT Bombay**, and Java Full Stack from **WIPRO**

**Soft Skills**: Time Management, Communication Skills, Problem-solving Skills, and Team Player

## Leadership / Extracurricular

- **KHO- KHO Coordinator, 2024, CMR Engineering College** (Jan 2024-Present) — Responsible for managing and conducting the Inter-Departmental Competition (Exuberance 2024). Managed and conducted Kho Kho tournament for 15 teams
- **Artificial Intelligence Club Member** at CMR Engineering College
- Volunteered for **College Activities**, CMR Engineering College