

# SHRAVYA RACHA

Warangal, India | P: +91 9676686849 | shravyaracha196@gmail.com

## EDUCATION

---

### Kakatiya Institute Of Technology And Science

Bachelor of Technology

Major in Computer Science (IoT);

Current CGPA: 9.21/10;

Relevant Coursework: Software Engineering; Operating Systems; Algorithms; Artificial Intelligence; Web Design;

Warangal, Telangana, India

Expected 2026

### Delhi Public School

Senior Secondary School

Score : 87%;

Warangal, Telangana, India

2020 - 2022

### Warangal Public School

Higher Secondary School

Score : 97%;

Warangal, Telangana, India

2010 - 2020

## INTERNSHIP

---

### National Institute Of Technology And Science

Summer Intern

Warangal, Telangana,

- Gained hands-on experience in Industrial IoT and Automation at the SIEMENS Centre of Excellence for Digital Manufacturing and Automation and advanced tools like TIA Portal V16 and MindConnect gateways. India
- Contributed to PLC programming, Raspberry Pi projects, and bidirectional communication for MAPS-6S Distribution and Testing stations. 2010 - 2020

## PROJECTS

---

### Automatic Drill Core Lithology Logging

- Designed and implemented automatic drill core lithology logging as 4-person team in 2-day Smart India Hackathon, 2023
- Used YOLO v3, TensorFlow, and OpenCV to classify geological samples, improving data logging accuracy and efficiency

### Product Management Application

- Developed a full-stack web application using MongoDB, Express.js, React, and Node.js (MERN) to manage products with CRUD functionality
- Designed RESTful APIs and integrated MongoDB with an optimized backend.

### URL Shortener with CRUD Functionality

- Developed a dynamic URL shortener with create, read, update, and delete (CRUD) operations using Node.js, Express.js, and MongoDB for backend management.
- Implemented a responsive frontend with React, Vite, and TypeScript, ensuring a seamless user experience and robust type safety.

### Student Performance Analyzer with Interactive Dashboard

- Developed a comprehensive Student Performance Analyzer using Python for backend analysis and Streamlit for an interactive frontend, enabling real-time visualization of trends and personalized recommendations.
- Features include consistency scoring, topic-based improvement plans, and tailored learning strategies, integrating statistical analysis and educational insights to optimize student learning outcomes.

## SKILLS & CERTIFICATIONS

---

**Technical Skills:** C, Python, Java, SQL, Oracle, MongoDB, NodeJs, React, Express.js, Numpy, Pandas, TensorFlow

**Languages:** Fluent in Telugu, English; Conversational Proficiency in Hindi

**Certifications:** Online Bootcamp in Full-Stack Web Development

## ACTIVITIES

---

Innovation and Research Club, SAIL,  
KITSW

President

- Organized workshops and events on cutting edge technology like Robotics, Drone Technology, IoT and more to inspire student innovation.
- Led a team to foster entrepreneurship and innovation on campus through research and mentorship.

## **Literary Club**

### **Committee Member**

- Actively participated in debates, MUNs, poetry, and essay competitions while assisting in event organization.

## **RESEARCH**

---

### **Multilingual Spam Detection Using Meta Learning**

Demonstrated the efficiency of meta learning for spam message identification by testing the model on unseen languages. The model is trained and tested on Dravidian languages (Telugu, Tamil, Kannada, Malayalam) and English and showed higher performance metrics than the traditional ML models.

### **A Hybrid Quantum-IoT(QIoT) Framework For Next-Gen Smart and Secure IoT Systems**

Developed a quantum-enhanced IoT framework demonstrating 56.4% higher throughput, 40% lower latency, and 95% eavesdropping detection compared to classical systems through quantum key distribution (QKD) and optimization algorithms (QAOA)