

SHRAVYA RACHA

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EDUCATION

Kakatiya Institute Of Technology And Science

Bachelor of Technology

Major in Computer Science (IoT);

Current CGPA: 9.21/10;

Relevant Coursework: Software Engineering; OperatingSystems; 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.
- Contributed to PLC programming, Raspberry Pi projects, and bidirectional communication for MAPS-6S Distribution and Testing stations.

India

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 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)