Nathaniel Rayala

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LinkedIn | GitHub

EDUCATION

B.Tech in Artificial Intelligence and Data Science, Seshadri Rao Gudlavalleru Engineering College - 81.1% 2021 - 2025
Intermediate(XII),Narayana Junior College - 90.5% 2019 - 2021
SSC, Bhashyam English medium School - 93% 2017 – 2019

SKILLS

Programming Languages: C, Python, JavaScript (Beginner), Java (Intermediate) .
Database and Language: MySQL (Intermediate), MongoDB(Basic).
Frameworks: Bootstrap, NumPy, Matplotlib, MysqlConnector, Pandas, React(Basic), Node.js(Basic) .
Design: CSS3, HTML5.
Soft Skills: Collaboration, Communication, Planning, Teamwork, Time Management, Leadership.

EXPERIENCE

NIC (National Informatics Centre) – Web Development Intern - May 2023 – June 2023

Completed an internship at NIC, gaining hands-on experience in cybersecurity and web development. My role involved raisingawareness about cyber threats and educating the public on cybersecurity measures.

- Web Interface Development
- Detailed Presentation and Awareness on Cyber Threats.

SmartInternz – MERN Stack Developer Intern - May 2024 – June 2024

Completed an internship at SmartInternz, where I worked on full-stack web development using the MERN stack. Gainedproficiency in building dynamic and responsive web applications and received certification in MongoDB.

- Full-Stack Development
- MongoDB Certification (Beginner)

PROJECTS

Intelligent Soil Nutrition Management (Team Project): Developed a comprehensive system to monitor and maintain soil nutrients and moisture, featuring real-time data visualization and predictive analysis. The system includes a website for displaying soil conditions and a drip irrigation system for optimal nutrient delivery. This project helps in maintaining soil fertility and enhancing crop yield.
Tech stack used: Soil sensors, NPK Sensors, python, Node.js, HTML, CSS, JavaScript.

Voice Sentiment Analysis System (Individual Project): Developed a web application that analyzes the emotional content of spoken audio data in real-time. Users can upload an audio file to detect and categorize emotions, providing valuable insights into the sentiment expressed. The system supports various applications, including real-time customer feedback analysis in business settings and emotional well-being monitoring in healthcare. This project promotes understanding of human emotions through voice communication.
Tech stack used: Python, Flask, HTML, CSS, JavaScript, Machine Learning, Signal Processing (librosa).

Edvise (Team Project) : The platform features an automated calendar booking system for scheduling appointments, integrated video calls and chat for virtual meetings, a responsive React frontend, and a Node.js and Express backend for smooth interactions. MongoDB handles data storage and user profile management.
Tech stack used: MongoDB, React, Express, Node.js, Socket.io.

CERTIFICATIONS & PROJECT PATENT

- **Patent publication on Autonomous Target Striking Vehicle [Application No.202441068604] - Publication Application**
- **Certified in Python, java, SQL - HackerRank**
- **Certified in Data Engineering - AWS**
- **Certified in Full Stack Web Development - Udemy**

ACHIEVEMENTS & EXTRA-CURRICULAR ACTIVITIES

- **Participated and won 2nd prize in SRGEC INTERNAL SMART INDIA HACKATHON(SIH-2023)**
- **Participated and won 3rd prize in IDEATHON 2023 conducted by KL Startup Foundation**
- **Member of Innovation and Startup Club – SRGEC IIC (Innovation and Incubation Centre)**