

BOJEDLA SAI RAM

☎ +91 9502790429 ✉ bojedlasairam@gmail.com 🔗 LinkedIn

Passionate computer science graduate eager to build technical expertise in software engineering and data-driven solutions.

EDUCATION

Vellore Institute of Technology, Amaravati, Andhra Pradesh

Aug 2021 – May 2025

Bachelor of Technology in Computer Science and Engineering with Specialization in Data Analytics

CGPA: 8.61

Sri Chaitanya Junior College, Khammam, Telangana

Jun 2019 – Mar 2021

Intermediate

Percentage: 98%

Sri Chaitanya School, Madhira, Telangana

Jun 2018 – Mar 2019

Tenth

CGPA: 9.8

SKILLS

Programming: Java, R, SQL, Python (Basic)

Data Analysis Tools: Excel, Tableau, Power BI

Soft Skills: Analytical Thinking, Problem-Solving, Team Collaboration, Communication, Time Management, Adaptability

Relevant Courses: Object-Oriented Programming, Operating Systems, DBMS, Computer Networks

PROJECTS

Liver Tumor Detection Using Semantic Segmentation

- Developed a **semantic segmentation**-based system using an **encoder-decoder architecture** and **ResNet50** for **feature extraction** from medical imaging data.
- Trained a **SegNet CNN model** on annotated MRI and CT scan datasets, achieving **98% accuracy** in identifying tumor regions.
- Evaluated model performance using **precision, recall, and IoU metrics** to ensure reliable and consistent detection results.

M-AI IDS: Multi-Modal AI Intrusion Detection System

- Led a team of 3 members, applying strong **collaboration**, communication, and **strategic thinking** to deliver the project on time.
- Designed a **multi-modal intrusion detection system** analyzing **network traffic, host logs, and behavioral patterns** for improved threat identification.
- Integrated **Random Forest, XGBoost, and LightGBM** models using **ensemble learning** to enhance detection accuracy across modalities.
- Achieved **99% accuracy** and **97% precision**, significantly reducing **false positives** and improving overall system reliability.

Smart Access Controlled Door Lock System

- Built a secure access control system integrating **RFID modules** with **Raspberry Pi** for **card-based authentication** using university ID cards.
- Implemented a **facial recognition** system using **OpenCV** and **Java** to ensure accurate access control under different conditions.
- Connected a **solenoid lock** mechanism with software logic to enable **real-time physical** access management on identity verification.

COVID-19 Data Visualization Dashboard

- Created an interactive **Tableau dashboard** to visualize real-time **case trends**, recoveries, and mortality statistics during the pandemic.
- **Processed and visualized cleaned data** to provide actionable insights into the spread and impact of COVID-19 across different regions.
- **Link:** [!\[\]\(196c08192bc1688b986c9d181e52f15b_img.jpg\) Covid-19 Dashboard](#)

CERTIFICATES

- **Google Cloud Digital Leader** – Google
- **Google Cloud Computing Foundation** – Google
- **Data Analysis using Python** – IBM
- **Data Analytics Essentials** – Cisco Networking
- **Data Analytics** – Great Learning
- **Power BI Job Simulation** – pwc- Forage
- **Data Analytics** – KPMG- Forage

CO-CURRICULAR

Successfully led a Photography Club event, managing logistics, team roles, and inter-department coordination
Solved 150+ problems on LeetCode and HackerRank to strengthen DSA and logical reasoning skills.