NAGA SAI HEMANTH OGIRALA

📞 +91-9177353394 ✉ ogiralanagasaihemanth@gmail.com in Linked In ⭘ GitHub

EDUCATION

Velagapudi Ramakrishna Siddhartha Engineering College   **Vijayawada**
Bachelor of Technology,CGPA: 9.01   *Nov 2021 – May 2025*

WORK EXPERIENCE

Microsoft | *Associate Consultant Intern*   **Mar 2024 - Present**
- Designing and implementing an ongoing quality framework to automate data ingestion and processing using Synapse, Databricks, and Microsoft Fabric.
- Developing automation scripts with Synapse CLI for wheel file and notebook uploads, and working on data metric calculators to support quality and processing metrics.
- Undergoing Azure Data Engineering training (AZ-900, DP-900) while gaining hands-on experience in real-time data and AI projects across ADF, Databricks, Synapse, Fabric, and Power BI.

Swift Safe | *Cyber Security Analyst Intern*   **Jul 2024-Sep 2024**
- Worked on real-time projects in VAPT and auditing, successfully auditing more than 5 targets.
- Authored 15+ articles on cybersecurity topics, Contributed to building an open-source security tool, by incorporating machine learning for vulnerability detection.

Safe Software and Integrated Solutions Pvt Ltd | *Backend Intern*   **May 2024 – Jul 2024**
- Streamlined backend processes, resulting in a 20% improvement in API response times boosting application performance.
- Collaborated with a team of developers in developing web application and achieving a 30% reduction in issues.

PROJECTS

Crop Yield Forecasting Using Remote Sensing   **Aug 2024 - Dec 2024**
- Developed an advanced crop yield prediction model integrating Sentinel 1& 2 satellite data with environmental factors such as soil health, weather patterns, and vegetation indices.
- Employed Random Forest and XG Boost algorithms to map complex non-linear relationships, achieving 98.7% accuracy in yield forecasting.

Lend Now   **May 2024 - Aug 2024**
- Engineered a scalable MongoDB database for the app, optimizing data storage and retrieval by 40%.
- Developed a comprehensive schema managing 10,000+ user profiles, loans, payments. Collaborated with the front end team to integrate the UI with back end services, reducing load time by 30%.

Crop Yield Estimation Using Remote Sensing   **Jan 2024 - May 2024**
- Gathered historical yield data for the region of interest and developed yield models using 10+ factors.
- Implemented ML algorithms to estimate crop yields with historical yield values resulting in accuracy of 98.3%. Temporal and Spatial analysis of vegetation across 7 years from 2017.

IoT and Computer Vision based Turmeric Crop Optimization   **Aug 2023 - Dec 2023**
- Real Time Data Visualization on Thing Speak, implemented robust real-time data visualization for crucial parameters like soil moisture, temperature and air humidity on thing speak, increasing accessibility by 50%.
- Alert Integration for immediate Action, Integrated alert mechanisms within Thing Speak to promptly notify users about irregularities in soil conditions. Leveraged Machine Learning Model for disease detection in turmeric leaf with an accuracy of 99.2%.

TECHNICAL SKILLS

- **Languages:** Python, Node JS, SQL, NOSQL
- **Cyber Security:** Incident Response, Threat analysis, Network Monitoring
- **Developer Tools/Frame work:** Open CV, GEE, Thing speak, Arduino, Wireshark, VS code, Service now
- **Operating Systems:** Windows,Kali Linux.

CERTIFICATIONS

- **Cloud**Google Cloud Digital leader, Google Cyber Security analyst, Google cloud associate Engineer.
- **Cisco:** PCAP trained, CCNA trained , Cyber ops Trained.
- **Service Now:** Certified System Adminstrator, Certified Application Developer.
- **NPTEL:** Data analytics With Python, Cyber Security and privacy, Management Information System, Privacy in social media.

EXTRA CURRICULAR

- Published paper on IOT for turmeric crop optimization along with computer vision at IIIT Kottayam.
- Presented paper titled as estimation of crop yield using GEE at NIT Bhopal.
- Organized Innovation day as IIC head while guiding many juniors and peers in building IOT projects.
- Achieved top 2% in MIS NPTEL EXAM.