

# SRAVANI TANGALLAPALLY

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## EDUCATION

### SPHOORTHY ENGINEERING COLLEGE

Bachelors of Technology in Computer Science - AIML - 7.27

Hyderabad, TG

2021-2025

## PUBLICATIONS

Lead Author - “*Early Detection of Alzheimer’s Disease using Deep Learning*”, published in the **International Research Journal of Advanced Engineering Hub (IRJAEH)**. DOI: <https://doi.org/10.47392/IRJAEH.2025.0319>

## EXPERIENCE

- **EY GDS & AICTE-Next Gen Employability Program** March 2025 – April 2025  
Successfully completed a 6-week industry-focused internship on modern web application development using the MERN stack. Gained hands-on experience in full-stack development, REST APIs, responsive UI design, and deploying scalable applications with version control and collaborative practices.
- **International Institute of Information Technology (IIIT-H X Swecha) - AI Developer Intern** May 2024 – June 2024  
An internship with a 5-day workshop at IIIT Hyderabad, focusing on AI-driven solutions for cultural and language preservation through hands-on model development and innovation.

## PROJECTS

### AquaCrop Insight- AI-powered Q&A platform: [Link](#)

- Built an AI-powered Q&A platform enabling **NLP** queries on India’s rainfall and crop production using **IMD** and **DES** data.
- Integrated **FastAPI** for efficient backend processing and **DuckDB** for high-performance, in-memory analytics to deliver fast insights.
- Developed an interactive **Streamlit** interface to provide real-time, **SQL**-backed visualizations and data exploration.

### Early Detection of Alzheimer’s Disease Using Deep Learning: [Link](#)

- Designed and implemented a web-based Alzheimer’s diagnosis system using a **lightweight CNN** model trained on brain **MRI** scans, achieving **88.5% accuracy** for stage-wise detection.
- Integrated the model with **Streamlit** to provide a user-friendly interface for real-time image upload and instant predictions.
- Added automated report generation with confidence scores and doctor-style insights to enhance usability and decision support.

### Smart Crop Selector Using ML: [Link](#)

- Developed an **ML**-powered crop recommendation system using soil composition and **location-specific** data to suggest optimal crops.
- Built a responsive **React-based frontend** for seamless user interaction and real-time recommendation display.
- Implemented ML models to improve prediction accuracy and support data-driven agricultural decision-making.

## SKILLS

### Programming Languages

- Python Programming, MERN

### AI&ML Frameworks

- NumPy, Pandas, Matplotlib, SciKit-Learn, Tensorflow, OpenCV, LLM’s, Streamlit

### Database& Data Storage

- Oracle SQL, MongoDB

### IDEs

-Visual Studio, Jupyter

### Frontend Development

- HTML, CSS, React, Bootstrap.

### Soft Skills

- Communication, Networking, Spearheaded, Adaptability

## CERTIFICATIONS

- Introduction to Natural Language Processing - Great Learning
- Cyber Security Training - Honeywell
- Java foundations - Oracle Academy

## CO-CURRICULAR ACTIVITIES

- Served as the elected President of **SHE INSPIRES** for the year **2024-25**, a college club dedicated to empowering and advancing women through personal and professional development initiatives.
- Led events, managed digital outreach, and coordinated development initiatives for the club.