

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.