

Tammaana Sai Kowshik

Junior Undergraduate, Computer Science and Engineering
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Education

Degree	Institute	Year	CGPA
B.Tech, Computer Science and Engineering	Keshav Memorial Institute of Technology	2023–Present	7.68
Intermediate (Physics, Chemistry, Mathematics)	Deeksha College	2021–2023	9.00
CBSE	Meridian High School	2021	9.0

Projects

VaidhyaVaani

Feb 2025 – Apr 2025

Real-time emotion recognition web application from multilingual speech input.

- Built and deployed a full-stack web application (speech-park.web.app).
- Engineered backend pipeline to process audio, extract features, and classify emotions across multiple languages.
- Enabled doctors to download patient insights as CSV, supporting early psychiatric diagnosis.

Deepfake Video Detection System

Sep 2024

- Developed deep learning system analyzing video frames to detect AI-manipulated content.
- Applied transfer learning with CNN architectures to achieve high benchmark accuracy.

AI for Medical Image Annotation

2024

Developed a system to analyze X-ray, CT, and MRI scans for detecting tumors and defects.

- Created a web interface with features to view and download scan reports.

SmartPark Sentinel

Feb 2025 – May 2025

- Architected rover-based real-time parking spot monitoring and vehicle identification system.
- Processed data from 500+ parking spots daily, reducing latency by 25% and improving occupancy by 30%.
- Enabled 24/7 monitoring with automated alerts and data logging.

Leadership & Volunteering Experience

Team Coordinator, Election Awareness Campaign

Jan 2025 – Apr 2025

- Led a team of 6 volunteers to engage over 400 first-time voters across 8 colleges.

House Head, School Leadership

- Coordinated inter-house academic and cultural events; served as liaison between students and management.

Chess Competitor

- Represented school in interschool competitions, achieving notable rankings.

Technical Skills

- **Programming Languages:** Python, C/C++, Java
- **Machine Learning & AI:** Transformers, GANs, CNNs, Transfer Learning, NLP, Computer Vision, PyTorch, TensorFlow, Keras
- **Web Development:** Flask, HTML, CSS, JavaScript, MongoDB
- **Tools and Version Control:** Git, GitHub, Docker
- **IoT and Real-Time Systems:** Embedded Systems, Rover Integration, Real-time Data Processing, Automated Monitoring
- **Problem Solving:** Data Structures & Algorithms, Debugging, Logical Reasoning

Achievements & Awards

- Third place, National Level Hackathon (BITS Pilani Hyderabad, 2024)
- First place, District Level Ramanujan Mathematics Exam
- Runner-up, Geethanjali Hackathon (Zenovate)