KANTAREDDY SATHVIK REDDY

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EDUCATION

CMR College of Engineering and Technology   Sept. 2022 – Aug. 2026
B Tech in CSE (AIML)   *CGPA: 8.15*
Nano IIT Academy   Aug. 2020 – May 2022
MPC   *CGPA: 96.7*

PROJECTS

Nirva-Agni | **Machine Learning** | **Web Development**

- Designed an AI-driven fire detection and suppression system using YOLO and OpenCV, reducing fire response time by 40% and increasing accuracy over 75%. (Duration: 4 months)
- Engineered a two-axis robotic arm with water and CO2 suppression for efficient and precise fire containment.
- Built a responsive front-end website to showcase real-time fire detection capabilities and system functionality.
- Technologies utilized: Python, TensorFlow, OpenCV, HTML, CSS, JavaScript.

Mira | **Web Development** | **Machine Learning**

- Developed an AI-powered chatbot that assists users in ordering food and provides real-time updates on food preparation status, reducing manual order tracking by 60%. (Duration: Ongoing)
- Integrated NLP techniques with over 90% accuracy in understanding user queries, enhancing user interaction.
- Implemented FastAPI with MySQL, handling up to 500 concurrent requests efficiently, improving backend processing speed by 40%.
- Technologies utilized: Python, NLP, FastAPI, and MySQL.

Face Mask Detection | **Machine Learning**

- Designed and implemented a machine learning model achieving 95% accuracy for real-time classification of masked/unmasked individuals. (Duration: 4 days)
- Leveraged neural networks to ensure adaptability to various lighting conditions and face orientations.
- Technologies utilized: Python, TensorFlow, OpenCV.

TECHNICAL SKILLS

Programming Languages: C++, Python,Java,C.
Frontend Technologies: HTML,CSS,Javascript.
Frameworks: Bootstrap,Django.
Tools and Platforms: Git, GitHub
Databases: MySQL

CERTIFICATES

- Google AI/ML Virtual Internship - Google
- Flipkart Grid - Unstop

ACHIEVEMENTS

- Secured a top 3 position among 30 teams in the AI Autonomous International Hackathon 2025, held at VR Siddhartha Engineering College, competing against global participants.
- Represented our idea at Ideothan, a national-level competition held at CVR College, where we competed among 150 teams and secured a top 10 position.
- Achieved 5th place among 50 teams in the Hacksavvy hackathon at MGIT College.
- IET Karmaveer, an international project expo, where we competed against 50+ major projects, including startups and industry-driven innovations.
- Ranked in the Top 10 teams in WebWars, a web development event hosted by the college.