Naga Venkata Raviteja Ungarala

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Education

Swarnandhra College of Engineering and Technology **Sep 2021 – May 2025**
Bachelor of Artificial Intelligence and Machine Learning *Narsapur,A.P*
CGPA:8.45

Sri Chaitanya Junior College **Jun,2019 - Mar,2021**
M.P.C *Tadepalligudem,A.P*
93.5

Experience

Robocopler pvt Ltd **Dec 2024 – Mar 2025**
AIML Intern *Vizag, A.P*

- Worked on AI/ML model development for automation tasks, improving predictive accuracy by 12%.
- Developed and optimized machine learning pipelines for real-time data processing and decision-making.
- Gained practical exposure to deep learning frameworks and computer vision techniques.

AIMER Society **May 2024 – July 2024**
AI Intern *Vijayawada,A.P*

- Collaborated with a team of 4 to implement hand gesture recognition using MediaPipe, achieving 90% accuracy in gesture classification.
- Contributed to the development of 2+ AI applications for real-time use in various industries, enhancing efficiency by 15%.
- Acquired hands-on experience with API integrations, chatbot development, and AI-based solutions.

Indian Servers **Jun 2023 – August 2023**
Cyber Security Intern *Vijayawada,A.P*

- Secured 5+ APIs by implementing advanced authentication techniques, reducing security breaches by 20%.
- Engineered network security protocols that improved threat detection response time by 30%.

AWS Academy **May 2023 – Jun 2023**
AI-ML Intern *Remote*

- Built 3 machine learning models using AWS SageMaker, improving prediction accuracy by 20%.
- Leveraged AWS Lambda and S3 to automate data processing, reducing manual intervention by 40%.

Projects

Jarvis Project | *Python, VS Code* **link**

- Developed a voice-controlled virtual assistant (Jarvis) capable of performing 10+ tasks including setting reminders and fetching information.
- Integrated natural language processing (NLP) and speech recognition, reducing command response time by 25%.

Lane Detection for Self-Driving Cars | *Python, OpenCV, NumPy, TensorFlow, Pycharm* **link**

- Developed a lane detection system using computer vision techniques to identify and track road lanes in real-time.
- Implemented image processing algorithms (e.g., Canny edge detection, Hough transform) to enhance lane detection accuracy.
- Trained a deep learning model to improve lane prediction under varying lighting and road conditions.
- Achieved 90+ accuracy in lane detection on test datasets, contributing to safer autonomous driving systems.

OWASP Juice Shop Challenge | *Heroku, OWASP*

- Resolved 5+ critical security vulnerabilities in OWASP Juice Shop challenge, enhancing web application security.
- Applied penetration testing techniques to identify and mitigate potential security risks.

Object Detection using YOLO | *YOLO v8, Google Colab, Roboflow*

- Engineered an object detection model with YOLOv8, achieving a 92% accuracy rate in detecting 10+ object classes.
- Processed and annotated 1000+ images to fine-tune model performance, reducing false positives by 10%.

Chatbot Integration with Telegram | *Python, NLP, Google Colab, Telegram*

- Designed and executed a chatbot with 95% user satisfaction rate, assisting with information retrieval and task automation.
- Handled 100+ real-time user queries daily, leveraging Telegram's Bot API for smooth interaction.

Fake PAN Card Detection | *Python, OpenCV, Google Colab*

- Employed OpenCV and Python for image processing and validation techniques to detect fraudulent PAN cards with 95% accuracy.
- Processed and analyzed 500+ PAN card images, reducing the time for manual verification by 50%.

Technical Skills

Languages Python, C, Java, SQL(Basics),HTML/CSS/Java Script
Developer Tools: VS Code, Eclips, Google Cloud Platform, Anaconda Navigator
Technologies/Framework Linux,Netlify, GitHub, streamlit, WordPress
Skills Data Science, Machine Learning, Artificial Intelligence

Extracurricular Activities

Class Representative

Member of IEEE Campus Ambassador for Computational Intelligence Society

Successfully achieved certification in the final competition on CTF-Cyber Security organized by PALS and Edith Cowan University, Australia

Achieved a global rank of 2500 in the IEEE Xtreme Programming Competition

Participated in a 24-hour hackathon in data science using Python

Engaged in the SIH-23 internal hackathon, contributing to project development and presentation in a competitive environment

Worked as a Student Leader in Swarnandhra College of Engineering and Technology for PALS