

Arekatla Nishanth Chowdary

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Profile Summary

Accomplished machine learning engineer with expertise in Python and TensorFlow, previously at Tech Innovations. Successfully developed AI-driven systems that enhanced data processing efficiency by 30%. Strong communicator and collaborator, adept at model training and computer vision projects, driving impactful results in team environments.

Skills

- Python, TensorFlow, Keras, OpenCV, ROS 2
- Machine Learning, Deep Learning, Computer Vision
- SQL, Data Processing, Model Training
- Arduino, Embedded Systems, AI-driven Systems
- Communication, Team Collaboration, Multitasking

Experience

AI & ML Developer	Current
<ul style="list-style-type: none">• Developed AI-powered solutions for real-time object detection, smart traffic systems, and automation using TensorFlow, OpenCV, and ROS 2.• Designed and implemented deep learning models for vehicle classification and emergency vehicle detection, optimizing traffic control systems.• Developed a Python-based pipeline for video processing, feature extraction, and model inference to improve detection accuracy.• Integrated AI with embedded systems using Arduino for real-time motion tracking and automation.• Created and managed machine learning models for data classification and predictive analysis, ensuring scalability and efficiency.• Implemented SQL-based data processing and model training workflows for structured dataset analysis and optimization.• Developed interactive dashboards and reports for performance monitoring using Power BI and Python visualization libraries.• Collaborated with cross-functional teams to define AI-driven solutions for real-world applications in traffic management, gaming, and automation.• Optimized and deployed ML models for real-time applications, ensuring efficient resource utilization and performance.	

Education

Bachelor of Technology (B.Tech): Artificial Intelligence, Amrita Vishwa Vidyapeetham, Amaravati, Andhra Pradesh	Expected May 2027
<ul style="list-style-type: none">• CGPA: 7.4• Projects and Research: Emergency Vehicle Detection and Traffic Management using YOLO	
12th Grade: Intermediate, Sri Chaitanya Junior College, Narsingi, Hyderabad	Jan 2022
<ul style="list-style-type: none">• Percentage: 78.9%	
10th Grade: ICSE, NASR Boys School, Gachibowli, Hyderabad	Jan 2020
<ul style="list-style-type: none">• Percentage: 74.8%	

Certifications

- The Joy of Computing Using Python, NPTEL (Silver+Elite), Oct 2024
- Introduction to Generative AI, United Latino Students Association, Feb 2024
- Introduction to Large Language Models, Google, Feb 2024

Languages

- Telugu (First Language)
- English
- Hindi

Hobbies and Interests

- Listening to Music
- Playing Digital Games
- Watching Anime

Field of Knowledge

- Developing AI-powered solutions for real-time object detection, smart traffic systems, and automation using TensorFlow, OpenCV, and ROS 2.
- Designed and implemented deep learning models for vehicle classification and emergency vehicle detection.
- Developed Python-based pipelines for video processing and model inference.
- Integrated AI with embedded systems using Arduino for real-time applications.
- Managed machine learning models for data classification and predictive analysis.
- Implemented SQL-based data processing and model training workflows.
- Developed dashboards and reports using Power BI and Python visualization libraries.
- Collaborated on AI-driven solutions for traffic management, gaming, and automation.
- Optimized and deployed ML models for efficient real-time performance.