

# MUNNALURI JAYASRI

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## Professional Summary

AI/ML enthusiast and B.Tech Information Technology undergraduate with hands-on experience in machine learning, deep learning, and Generative AI systems. Skilled in building end-to-end ML pipelines, AI-integrated web applications, and LLM-powered solutions. Passionate about applying AI to solve real-world problems efficiently and at scale.

## Experience

### AI/ML Intern

*Harsha Perfect Solutions*

May 2025 – Jul 2025

- Designed and deployed AI-enabled backend services using Django REST Framework on Linux systems.
- Improved model response accuracy by 18% through feature optimization.
- Built end-to-end ML inference pipelines including preprocessing, model loading, and real-time prediction APIs.

### Web Developer Intern

*GOATek*

January 2025- March 2025

- Developed responsive web interfaces using HTML, CSS, and JavaScript with a focus on usability and performance.
- Collaborated with the team to implement frontend features and integrate APIs into web applications.
- Improved UI consistency and responsiveness across devices through iterative testing and refinement.

### Artificial Intelligence Intern

*Brainwave Matrix Solutions*

Sep 2024 – Jan 2025

- Developed AI-integrated web applications combining ML models with frontend interfaces.
- Implemented supervised learning models achieving up to 87% classification accuracy.
- Optimized data pipelines for low-latency inference.

## Projects

### Generative Knowledge Web Platform

2026

- Developed a Generative AI-powered web application for automated knowledge retrieval using LLMs.
- Applied prompt engineering and context-aware query handling to improve response relevance.
- Achieved 92% response relevance accuracy using manual and automated evaluation metrics.

### Nutrition Label Analyzer

2025

- Built an ML-based classification system to analyze nutritional values from food labels.
- Trained models using Scikit-learn achieving 89% prediction accuracy.
- Implemented preprocessing pipelines and feature normalization.

### Ambulance Routing Optimization System

2025

- Designed an ML-driven route optimization system to minimize emergency response time.
- Utilized historical traffic data and predictive modeling for route selection.
- Achieved a 23% reduction in average response time using ML-based optimization.
- Built an interactive Streamlit dashboard for real-time visualization.

## Technical Skills

**Languages:** Python, Java, JavaScript, SQL

**ML/DL:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Keras

**Generative AI:** Large Language Models, Prompt Engineering, NLP, Computer Vision, Model Fine-tuning

**Frameworks & Tools:** Django, Flask, FastAPI, Streamlit, Git, Linux, Jupyter Notebook

**Cloud & DevOps:** AWS, Docker (Basics)

## Education

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**MVGR College of Engineering**

*B.Tech in Information Technology*

– Cumulative GPA: 8.42 / 10.00

**2023 – 2027**

## Certifications

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- Google Cloud Essentials
- Intel AI for All
- IBM AI & Deep Learning
- AWS Data Engineer & AWS Machine Learning
- Advanced Machine Learning — Udemy
- Generative AI — Kaggle
- Introduction to Large Language Models — Hugging Face
- Deep Learning Specialization — Andrew Ng (Coursera)
- Computer Vision — GeeksforGeeks

## Achievements & Activities

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- Solved 500+ DSA problems on LeetCode and GeeksforGeeks.
- Completed the 160 Days of DSA Challenge.
- Finalist in two national-level hackathons.
- Created educational YouTube content on DSA, Python, and Machine Learning.
- Active member of AI/ML communities and core member of Swecha Linux Club.