Madala Venkata Bhargav

Hyderabad, Telangana, India

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Summary

AI/ML Engineer with hands-on experience in machine learning, deep learning, reinforcement learning, and Generative AI systems. Skilled in building end-to-end ML pipelines, training and evaluating models, and optimizing systems under real-world constraints such as limited supervision and noisy feedback. Strong background in NLP, computer vision, and human-in-the-loop learning.

Education

Mahindra University, Hyderabad, India 2022 – 2026
B.Tech in Artificial Intelligence **(CGPA: 7.5)**
Deeksha College, Hyderabad, India 2020 – 2022
MPC **(97.2%)**

Relevant Coursework

- Data Structures
- Applied Artificial Intelligence
- Machine Learning
- Deep Learning
- Reinforcement Learning
- Natural Language Processing
- Image Processing
- Object-Oriented Programming
- Databases
- Operating Systems

Technical Skills

Programming: Python, Java, C, SQL
ML/DL: Supervised Learning, Unsupervised Learning, Deep Learning, Reinforcement Learning, Large Language Models
NLP: Sentence Similarity, Information Extraction, Summarization, Embeddings, AI Agents
Computer Vision: CNNs, U-Net, Attention Mechanisms
Frameworks/Tools: PyTorch, TensorFlow, Scikit-learn, Git, OpenAI API, Gemini API, Mistral API.
Libraries: NumPy, Pandas, Matplotlib
Systems: Operating Systems, Databases, Computer Networks, OOP, REST APIs

Projects

CMDCRAFT – Generative AI Command-Line Assistant GenAI Project
- Built a Generative AI–powered CLI tool to convert natural language instructions into executable system commands.
- Designed prompt templates and validation logic to ensure safe and accurate command execution.
- Integrated LLM-based semantic understanding with contextual follow-up handling.

Learning Robotic Arm Control with Minimal Human Feedback SEM Project (Ongoing)
- Designed a human-in-the-loop reinforcement learning pipeline for robotic arm control.
- Implemented a CACLA-based Actor–Critic model for continuous action spaces.
- Applied selective feedback and reward shaping to improve learning stability.

Automated Interview System NLP Project
- Built an NLP-driven interview system with dynamic follow-up question generation.
- Used embedding-based sentence similarity for candidate evaluation and scoring.
- Automated concise interview summarization for recruiters.

Image Colorization using Deep Learning Computer Vision Project
- Developed a U-Net-based image colorization model with attention and perceptual loss (VGG16).
- Preprocessed images using LAB color space for improved perceptual quality.

Additional Information

Open to AI Engineer, Machine Learning Engineer, and AI Research Intern roles.