Madhav Meruva

Hyderabad, Telangana 500035 AI/ML & Generative AI Enthusiast | BTech CSE KMIT'27 | Python | ML

Projects | Creative Problem Solver

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Profile

I'm an undergraduate B.Tech Computer Science student with a strong passion for Artificial Intelligence and Machine Learning. I've completed hands-on projects using Python, scikit-learn, and NumPy, and I'm continuously learning through online courses and self-initiated work. Currently, I'm seeking an internship where I can contribute, learn, and grow under real-world AI/ML challenges. **Tools:** Jupyter Notebook, Google Colab, Drive, GitHub, Docker

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Websites & Profiles

- LinkedIn
- Portfolio
- GitHub
- Leetcode

Skills

- Python
- MERN stack
- API integration & Development
- Flask framework

- Database management system
- Generative AI applications
- Machine learning techniques
- Deep learning techniques

Education

Bachelor of Technology, B.Tech in Computer Science

Keshav Memorial Institute of Technology

Expected January 2027

CGPA: 8.5

Intermediate in MPC

SriChaitanya College ofEducation

January 2023 GPA: 9.8

Projects

Aug 2024 — Dec 2024

Jewellery Design Pattern Generation

Converted customer-sketched jewellery designs into outline and original beauty images using Generative Adversarial Networks (GANs). Developed with Python, TensorFlow, React, and Flask to build a web-friendly application.
Key features: sketch-to-image converter, user-upload support, and real-time model generation.

- CODE
- DEMO

Feb 2025 - Jun 2025

Financial Question Answering System using FinQA

Built a modular neuro-symbolic architecture for answering complex financial questions over tables, integrating a BERT-based retriever, LSTM-based program generator, and symbolic executor. Followed a structured ML lifecycle, including data preprocessing, modular training, component integration, and iterative evaluation, to ensure accuracy, interpretability, and scalability. The architecture combines neural networks for learning with symbolic reasoning for precise and interpretable decision-making, enabling robust and explainable QA over financial data

- CODE
- DEMO