

# MODUGU TEJASWINI

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## EDUCATION

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- **Keshav Memorial Institute of Technology**, Hyderabad *Nov 2022 – Present*  
*B.Tech in Computer Science and Engineering (AI & ML)*  
CGPA: **9.3 / 10.0**  
Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, Machine Learning, Deep Learning, NLP, Web Development (MERN, REST APIs)

## TECHNICAL SKILLS

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- **Languages:** Java, Python, C++, JavaScript, SQL
- **Web Development:** MERN Stack, Flask, RESTful APIs, Spring Boot (Basics)
- **Databases:** MySQL, MongoDB
- **ML/DL:** CNN, LSTM, Word2Vec, NLP, NumPy, pandas
- **Tools:** Git, GitHub, VS Code, Postman, PyCharm, Eclipse
- **Core CS:** OOP, Data Structures, Algorithms, Problem Solving

## PROJECTS

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- **Katha Vaachak: AI-Powered Storytelling** (GitHub) **Dec 2024**  
*React, MongoDB, Flask, LLaMA 3, Stable Diffusion*
  - Developed an AI-driven platform that generates personalized stories and images from user inputs.
  - Integrated **LLaMA 3** for story generation and **Stable Diffusion** for AI-generated visuals.
  - Built a React frontend with Flask backend, enabling smooth API-driven interactions.
- **Medical Image Captioning and Disease Classification** (GitHub) **Jun 2024**  
*Python, Deep Learning (CNN, LSTM), Word2Vec, Flask, MERN Stack*
  - Built a full-stack web app for **chest X-ray analysis**, supporting real-time disease detection and automated report generation.
  - Implemented **DenseNet-121 CNN** for classification and **InceptionV3 + LSTM with Word2Vec** for image captioning.
  - Integrated ML models with Flask backend and connected them to a MERN-based interface.
- **Human Emotion Classification** (GitHub) **May 2024**  
*Python, Deep Learning (LSTM), NLP*
  - Built an emotion detection system classifying text into **six emotions** (Joy, Fear, Anger, Love, Sadness, Disgust).
  - Designed and trained an LSTM-based model for improved accuracy.
  - Deployed a simple web app for real-time emotion classification.

## ACHIEVEMENTS & CERTIFICATIONS

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- Solved **550+ DSA problems** across platforms (LeetCode, Coding Ninjas).
- Participated in **Flipkart GRID 6.0** and **Myntra HackerRamp: WeForShe 2024**.
- Certified in **SQL (HackerRank)** and **Machine Learning (Coursera)**.