

# MODUGU TEJASWINI

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## EDUCATION

- **Keshav Memorial Institute of Technology**, Hyderabad  
*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

Nov 2022 – Present

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++, JavaScript, SQL
- **Web Technologies:** HTML, CSS, React.js, Node.js, Express.js, Flask, REST APIs, Spring Boot (Basics)
- **Databases:** MySQL, MongoDB
- **Machine Learning:** CNN, LSTM, Word2Vec, NLP, NumPy, pandas
- **Tools & Platforms:** Git, GitHub, VS Code, Postman, PyCharm, Eclipse
- **Core Concepts:** OOP, Data Structures, Algorithms, Problem Solving

## PROJECTS

- **Katha Vaachak: AI-Powered Storytelling Platform** (GitHub) Dec 2024  
*React.js, Node.js, Express.js, Flask, MongoDB, LLaMA 3, Stable Diffusion*
  - Built an AI-driven platform that generates personalized stories and illustrations based on user-defined characters and plots.
  - Integrated **LLaMA 3** for coherent story generation and **Stable Diffusion** for AI-based image synthesis.
  - Developed a responsive React frontend and API-based backend for seamless user interaction.
- **Medical Image Captioning and Disease Classification** (GitHub) Jun 2024  
*Python, CNN, LSTM, Word2Vec, Flask, React.js*
  - Designed a full-stack system for automated **chest X-ray disease classification** and report generation.
  - Used **DenseNet-121** for disease prediction and **InceptionV3 + LSTM with Word2Vec** for medical caption generation.
  - Connected deep learning models with a Flask backend and a modern web interface for real-time predictions.
- **Human Emotion Classification System** (GitHub) May 2024  
*Python, NLP, LSTM*
  - Developed a text-based emotion classification model identifying six emotions: Joy, Fear, Anger, Love, Sadness, and Disgust.
  - Implemented and trained an LSTM-based neural network to improve contextual emotion detection.
  - Deployed a lightweight web interface for real-time emotion analysis.

## ACHIEVEMENTS & CERTIFICATIONS

- Solved **550+** **Data Structures and Algorithms** problems across LeetCode and Coding Ninjas.
- Participated in **Flipkart GRID 6.0** and **Mynta HackerRamp: WeForShe 2024**.
- Certified in **SQL (HackerRank)** and **Machine Learning (Coursera)**.