

TEJASRI VITTANALA

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EDUCATION

2022 – 2026	BTech - CSE , Shri Vishnu Engineering College for women CGPA - 9.5 Honors in Artificial Intelligence CGPA - 9.3	Bhimavaram
2020 – 2022	Intermediate - MPC , Sri Chaitanya Junior college Percentage - 98%	Amalapuram
2019 – 2020	Sri Balaji High School Percentage : 98%	Mummidivaram

SKILLS

Technical skills

Programming : Java, Python, DSA.
Web Development : HTML5, CSS3, JavaScript, React.js.
Databases: MySQL, MongoDB.
Tools: VSCode, GitHub, Tableau.
CS fundamentals : OOPS, DBMS, OS.

Soft Skills

Problem Solving
Team Work
Communication
Leadership

CERTIFICATIONS

DSA with Java [79%] By NPTEL(IIT Kharagpur)	Java programming By EDX	DB Programming - SQL By Oracle Academy	Machine learning By IBM
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PROJECTS

Smart Resume Analyzer [🔗](#)

Python (spaCy, BERT/Transformers) for NLP and text extraction.

Evaluates resumes against job descriptions, providing a **similarity score** and actionable **suggestions** to improve the resume's alignment with the desired role.

Employee Management System

React.js / Node.js / Express.js / MySQL

Distinct HOD and employee logins, enabling **HODs** to assign tasks, give feedback, track work progress, and manage leave approvals. **Employees** can view and submit tasks, check feedback, and apply for leave within the system

LibraTech [🔗](#)

Python / MySQL

A desktop application to automate library services with features like book availability search, request management, and administrator login .

RESEARCH PAPER

Categorizing tasks generated by Large Language Models (LLMs) [🔗](#)

(ongoing)

Traditional clustering methods like BERTopic, using BERT embeddings, face challenges with cluster separation and interpretability. To overcome these, I've developed a new approach using hybrid embeddings (BAAI/bge-large-en), dimensionality reduction (UMAP), and advanced clustering algorithms like DBSCAN and KMeans. This approach has successfully organized 5316 tasks into 300 substantive clusters, significantly improving topic coherence, cluster separation, and overall clustering performance.

ACHIEVEMENTS

Adobe Career Academy

- Selected as **1** of **200** mentees across India for mentorship focusing on Data Structures and Algorithms, Computer Science fundamentals, and interview preparation.

Smart coder

- Certified Smart Coder in Smart Interviews, skilled in Data Structures and Algorithms.

EXTRACURRICULAR ACTIVITIES

LIMCA BOOK OF RECORDS

- Participated in a nonstop speech challenge for 30 hours organized by Toastmasters International (Jubilance), Hyderabad.
- Club Coordinator of Empathy Club and organic Farmerettes Club.