

SHANMUKHA REDDY VASA

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Profile

B.Tech in Computer Science and Engineering at VIT-AP University, Amaravati. Proficient in Java, Python, and front-end technologies like HTML, CSS, JavaScript, React.js, and Redux. Skilled in back-end development with Node.js, Express.js, MongoDB, SQL, and Docker. Experienced with AI tools and technologies such as TensorFlow, PyTorch, and spaCy for machine learning and natural language processing.

Education

VIT-AP University, Vijayawada

B.Tech in Computer Science & Engineering

2021 - 2025

8.73/10 CGPA

Work Experience

Lumiq.ai

Software Developer Intern

Jan 2025 - Present

Noida, Uttar Pradesh

- Collaborated with a team of four to design and develop a chatbot system that integrates a large language model (LLM) with a database, allowing users to interact and retrieve relevant data through natural language queries.
- Extracted schemas, trained the model, fetched database responses, and handled user interactions through the frontend.
- Used a large language model to convert natural language inputs into SQL queries, allowing the chatbot to process user requests and generate executable database queries for data retrieval.
- Tech Stack:** React, NodeJS, PostgreSQL, Large Language Model, Docker, GitHub, Postman API.

IamNeo Edtech Private Limited

Front-end Developer Intern

Sep 2023 - Nov 2023

Remote

- Developed Student Management System using front-end technologies such as HTML, CSS, React.Js, Redux.
- Created web pages for authentication, profile enrollment, attendance tracking, grading systems and profit management.
- Utilised GitHub for version control, Vercel for deployment, Postman for API testing and Redux for state management.

Projects

AI-Based Document Risk and Compliance Analyzer

- Developed an AI-powered tool for document risk assessment and compliance checking, analyzing corporate documents like safety protocols and legal agreements.
- Implemented content extraction from various formats (PDF, DOCX) using Python, spaCy to identify compliance issues.
- Built a keyword-based document search system using Python and SQLite for safety information efficiently.
- Created the frontend interface with React.js, allowing users to upload documents and receive analysis on risk mitigation.

Transcript Summarization Tool

- Developed a summarization tool to process and condense long chat or transcripts into short, meaningful summaries.
- Integrated HuggingFace's BART transformer model to handle large volumes of text and generate accurate summaries.
- Implemented chunk-wise text processing for lengthy transcripts to maintain summarization accuracy and performance.
- Built a React.js frontend with file upload functionality and integrated it with a Flask backend for summary generation.

Movie Recommendation System

- Built a movie recommendation system to suggest movies based on user preferences using basic filtering techniques.
- Used filtering to recommend movies based on users' previous ratings and content-based filtering using movie details.
- Created the recommendation system using simple algorithms like KNN (K-Nearest Neighbors).
- Developed a frontend with React.js, allowing users to rate movies and see personalized suggestions.

Technical Skills

Languages: Python, Java, JavaScript

Backend: Node.js, Express.js, Flask, PostgreSQL, MySQL

Frontend: React, Redux, TailwindCSS, HTML, CSS

AI Tools and Technologies: TensorFlow, PyTorch, spaCy, HuggingFace, transformers

Developer Tools: Postman, VS Code, Git, Docker, GitHub