CHANDRA KANTH JINKA

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Profile

Enthusiastic Computer Science student interested in AI and Machine Learning, and problem-solving. Passionate about learning emerging technologies and applying them to build efficient solutions. A logical thinker with a detail-oriented and innovative approach to tackling challenges

Skills

- **Programming Languages**: Python, Java, SQL, C, JavaScript
- **Full Stack Development**: Flask, HTML, CSS, Bootstrap, RESTful APIs, Streamlit, React.js
- **Databases**: MongoDB, PostgreSQL, MySQL
- **IDEs**: VS Code, Cursor, Google Colab, Jupyter Notebook, **Figma**, Canva, Cisco Packet Tracer, NetBeans
- **Visualization Tools:** Power BI**,** Tableau
- **AI and Data Science**: Generative AI, Langchain, Scikit-Learn, PyTorch & TensorFlow-(learning)

Projects

Facial Expression-based Music Recommendation **Jan 2025**

- Developed a CNN model using TensorFlow and OpenCV for facial emotion recognition, achieving 92.48% accuracy on the FER2013 dataset.
- Built a web scraper with Requests and BeautifulSoup to collect and preprocess lyrics data for 700+ songs, stored efficiently in CSV format using Pandas.
- Utilised the music dataset to analyze and classify the emotion from the lyrics using the Emotion English DistilRoBERTa-base HuggingFace Model.Handled.
- **Tech & Tools:** TensorFlow, OpenCV, BeautifulSoup, Requests, Pandas, Hugging Face, Flask, HTML, CSS

Multi-Link News Articles Analysis tool, using Hugging face API(Gen AI) **Dec 2024**

- Developed a web app that extracts and processes news articles from multiple links, enabling **AI-powered chatbot** interactions for comprehensive **news insights.**
- Developed a FAISS-based retrieval system, **improving response relevance by 40%.**Implemented the map-reduce
- Optimized response generation using the **map-reduce** method with **(number of relevant chunks + 1) LLM calls**.
- Enhanced content processing **efficiency by 35%** through optimized embedding storage and retrieval.
- **Tech & Tools:** Streamlit, LangChain, FAISS, Hugging Face API, AI Model: Qwen/QwQ-32B, Python.

Auto ML, automates machine learning **Nov 2025**

- Designed and implemented an end-to-end AutoML pipeline, automating key stages of the ML workflow, including data preprocessing, model selection, hyperparameter tuning, and deployment.
- Integrated 8+ machine learning models to optimize performance across structured and unstructured data.Reduced ML model development time by 40% and improved deployment efficiency by 30%.
- Handled 10K+ data points across multiple datasets, automating feature engineering and reducing manual intervention by 60%.
- **Tech & Tools:** Python, TensorFlow, Scikit-Learn, PyTorch

Experience

Project Intern — SMARTINTERNZ **June 2024 - July 2024**

- Developed a highly responsive flight booking application MERN Full Stack application.
- Developed hands-on expertise in building full-stack applications using MongoDB, Express.js, React, and Node.js (MERN). Gained practical experience in authentication, database management, API integration, and deployment, **completing 52 hours of intensive development work.**

Certifications

- IBM NoSQL Certification
- Microsoft AI-900 Certification
- Prompt Engineering Certification

EDUCATION

Integrated MTech 5 year - CSE with Data Science **CGPA: 8.83**
Vellore Institute of Technology (Sept 2021 - ongoing) Vellore, Tamil Nadu

- Relevant Coursework: Machine Learning, Database Systems, Data Science, Web Development, Artificial Intelligence

Board of Intermediate Education **Marks:951/1000**
Sri Chaitanya Junior College (June 2019 – May 2021) Vijayawada, Andhra Pradesh

Board of Secondary Education **CGPA : 9.8**
Sri Chaitanya School (April 2019) Kadapa, Andhra Pradesh