Jaideep Chandrasekharuni

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EDUCATION

Vellore Institute of Technology   Amaravathi, AP
Bachelor of Technology in Computer Science   *August 2020 – July 2024*
CGPA : 8.1

PROFESSIONAL SUMMARY

Results-driven Computer Science graduate with hands-on experience in Generative AI, Machine Learning, and Deep Learning. Demonstrated expertise in developing AI-powered solutions, including LLM applications, computer vision systems, and automated content generation. Seeking opportunities to leverage technical expertise in AI/ML to drive innovation and solve complex business challenges.

TECHNICAL SKILLS

Languages and Databases: Python, SQL

Gen AI: LangChain, Hugging Face, RAG Systems, Neural Networks, Knowledge Graphs, Transformers

Core Frameworks: PyTorch, TensorFlow, Scikit-learn, FastAPI, Pandas, NumPy, Streamlit

Specializations: NLP, Computer Vision, LLMs, Prompt Engineering, Vector Embeddings

EXPERIENCE

XANSR TECHNOLOGY   June 2024 – December 2024
Generative AI Intern   *Saval AI (UPSC Preparation App)*

– Architected an end-to-end OCR system using **KerasOCR** and **Computer Vision** for document processing, achieving automated text extraction and diagram segregation with **98%** accuracy
– Developed a robust audio processing pipeline using Librosa and **MFCC** coefficients for speech recognition, attaining **95%** transcription accuracy across diverse audio inputs
– Engineered an **LLM**-powered content generation system using **Gemini** and **Claude** APIs, automating lecture creation and intelligent keyword extraction for enhanced content discoverability
– Engineered a scalable database system for UPSC examination content using **PostgreSQL** and **MinIO**, incorporating 10+ years of Prelims and Mains PYQs, with optimized **RESTful APIs**
– Built an automated web scraping system using **SerpAPI** and **Crawl4ai** for streamlining data collection and content aggregation for comprehensive educational resources

PROJECTS

Cancer Prediction (Hybrid Model)   **[Ensemble Machine Learning]**
– Innovated a hybrid cancer prediction model by harmonizing Gradient Boosting,Neural Networks, and Logistic Regression algorithms. Notable initial accuracy percentages for **Logistic Regression at 93**, **Gradient Boosting at 93**, and **Neural Network at 92**. Fusion culminated in an astounding **final accuracy of 97 percent**, markedly enhancing cancer diagnosis prognostication. *[View Code]*

Bitcoin Insights Hub   **[Full Stack]**
– Developed a platform combining technical analysis and news sentiment evaluation using **Gemini Gemma Model**,**4 Technical tools** and **TextBlob**.Also a **future trade calculator** with up to **125x leverage** simulation. Built with Python backend (**SQLite, yfinance, pandas**) and **Streamlit** dashboard, integrating real-time data from **CoinGecko** and **CryptoCompare** APIs. *[View Code]*

Fashion Apparel Synthesis using Generative Adversarial Network   **[Generative Deep Learning]**
– Orchestrated a **PyTorch Generative Adversarial Networks** implementation to generate synthetic fashion visuals, sculpting **CNN** architectures for both the **generator** and **discriminator** networks.Through iterative refinement, harnessed **Rectifier Linear Unit** activation. Initial Loss-D: **1.8978**, Loss-G: **4.8471**, concluded with Loss-D: **0.2868** and Loss-G: **2.3267**. *[View Code]*

CODING PROFILES & ACHIEVEMENTS

Google Data Science: Completed industry-focused externship in Applied Data Science *[View Certificate]*
Hackathon Winner: Secured first place in Aptean's AI Hackathon, Bangalore (120+ participants) *[View Achievement]*
Blogs: Checkout my blogs on emerging tech stacks and projects.*[View Blogs]*
LeetCode: Enhanced coding skills by solving a broad spectrum of LeetCode problems. *[View Profile]*
HackerRank: Python Development, Problem Solving, and SQL Certifications *[View Profile]*