CHINMAY INCHAL

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LinkedIn | GitHub | CodeChef

Professional Summary

Final-year Artificial Intelligence and Machine Learning engineering student with a strong foundation in machine learning, data analysis, and software development. Experienced in building end-to-end ML projects, including data preprocessing, feature engineering, model training, and evaluation. Worked on real-world problem domains such as healthcare and finance, with hands-on exposure to NLP and modern AI tools. Passionate about applying data-driven approaches to solve practical problems and continuously improving technical and problem-solving skills.

Education

B.E. in Artificial Intelligence and Machine Learning — **CGPA: 8.22**
New Horizon College of Engineering, Bangalore

Diploma in Computer Science — **CGPA: 8.06**
MM Polytechnic, Belagavi

SSLC — **77%**
Secondary Education Examination Board, Belagavi

Projects

Gene & Symptom Prediction in Rare Diseases

- Developed supervised ML models to identify correlations between genomic data and clinical symptoms for early-stage rare disease prediction using random forest
- Performed feature extraction and model evaluation to improve diagnostic accuracy
- Tech: Python, Scikit-learn, Pandas, NumPy

AI-Driven Personalized Investment & Financial Advisor

- Designed an ML-based advisory system to provide personalized investment recommendations based on user income, savings, and financial goals
- Applied data preprocessing, feature engineering, and predictive modeling for risk profiling and goal-based recommendations
- Integrated real-time financial data APIs to generate dynamic insights
- Tech: Python, Machine Learning, Pandas, NumPy, APIs

My Second Brain – Personal Knowledge Base Chatbot

- Built a full-stack Retrieval-Augmented Generation (RAG) system to query personal documents and YouTube transcripts using natural language
- Implemented local embedding pipeline with persistent vector storage to ensure privacy and zero-cost indexing
- Integrated high-speed cloud inference for low-latency responses with source-grounded citations to reduce hallucinations
- Tech: Python, Streamlit, LlamaIndex, ChromaDB, HuggingFace Embeddings, Groq API

Technical Skills

Languages: Python, Java, JavaScript
Tools: Docker, Git, REST APIs, VS Code
NLP: Text Classification, Transformers, TF-IDF
Concepts: DSA, OOPs
Web: HTML, CSS, Streamlit
ML/AI: Scikit-learn,Feature Engineering, RAG, PromptEngin
Databases: MySQL, ChromaDB
Web Dev: HTML, CSS, JavaScript
Deep Learning: CNNs, RNNs, LSTM, TensorFlow
GEN AI: CrewAI, Vector Database, Semantic Search

Achievements

Published paper titled *"**ML Techniques for Identifying Genes and Symptoms in Rare Diseases**"*, showcasing practical applications of machine learning in healthcare.