Divin Machaiah KV

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Education

Christ (Deemed to be University), Bangalore — 6th Semester Completed
B.Tech in CSE - AI & ML — *CGPA: 8.80*

Vidyanikethan PU College, Gonikoppal — PUC - PCMB
Pre-University Course — *91.8%*

St. Antony's High School, Ponnampet — SSLC
Secondary School — *89.44%*

Technical Skills

- Programming Languages: Python, C
- Machine Learning, Deep Learning, NLP
- AI Tools: Perplexity, Gemini, Blackbox AI, Claude, ChatGPT

Certifications

- Machine Learning - Great Learning
- AI Tools - Be10x
- Packet Tracer & Networking Basics - Cisco
- Multiple Cisco Badges for Java, AI, etc.

Internship Experience

Locate Us, Mysore — Apr 2024 – May 2024
NLP-Based Text Recognition & Emotion Detection

- Developed Kannada text recognition using EasyOCR
- Implemented emotion detection using NLP techniques

Plasmid Innovation Pvt Ltd — May 2025 – Jun 2025
Online Payment Fraud Detection — Python, ML

- Built ML model with Random Forest Classifier to detect fraudulent payments
- Handled class imbalance using SMOTE

Projects

Online Payment Fraud Detection — Completed
Python, Pandas, Scikit-learn, Streamlit

- Developed an end-to-end Financial Fraud Detection application using Python, Pandas, Scikit-learn, and Streamlit.
- Trained a Random Forest Classifier on a highly imbalanced dataset, utilizing SMOTE (Synthetic Minority Over-sampling Technique) to oversample the minority class and achieve **99.9% accuracy**.
- Engineered a dual-function dashboard to evaluate model performance on labeled data and predict fraud on new, unlabeled datasets.

– Implemented post-prediction business logic to correctly identify and group related fraudulent activities (e.g., high-value transfers and cash-outs).

AI Chat Bot For University Ongoing
Python, LangChain, Google Gemini, FAISS

– **Christite Assistant: AI-Powered University Chatbot**.
– Developed a highly accurate, AI-powered chatbot using a Retrieval-Augmented Generation (RAG) architecture to provide instant answers from 145+ pages of complex university documents, including the official handbook and academic calendar.
– Engineered a robust data pipeline in Python using `PyPDFLoader` to ingest documents and a FAISS vector store for efficient semantic retrieval of text embeddings, generated by Google's `embedding-001` model.
– Utilized the LangChain framework and Google's `Gemini-1.5-Flash` model to build a context-aware response system that minimizes model hallucination. Designed the app with a modular structure (`main.py`, `rag.py`) and secure API key management for maintainability and safety.

Text Summarization & Translation Ongoing
NLP for Educational Aid

– Summarized and translated long texts for better student understanding

Crack Detection System Completed
Digital Image Processing

– Developed MATLAB-based solution for detecting structural cracks

Career Skills

- Problem Solving
- Teamwork
- Leadership

Areas of Interest

- Artificial Intelligence & Machine Learning
- Generative AI

Hobbies

- Sports
- Traveling