DHRUV PATEL

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EDUCATION

Indian Institute of Information Technology, Sricity   **2023 - 2027**
Bachelor of Technology in Computer Science and Engineering | Current CGPA - 9.49

PROJECTS

DemeterAI– Smart Farming Solutions | Link.
Tech Stack: Python, Flask, OpenCV, Scikit-learn, TensorFlow, REST APIs, HTML/CSS
- Built an AI-powered tool for crop recommendation, fertilizer advice, and plant disease detection via image recognition.
- Integrated multilingual chatbot for accessible farming guidance and real-time weather insights

Stroke Risk Prediction Application | Link
Tech Stack: Python, Streamlit, Scikit-learn, XGBoost, Pandas, NumPy, Seaborn, Matplotlib
- Developed a real-time web application using Streamlit to predict stroke risk based on patient health data.
- Implemented ML pipeline for preprocessing, model training, and deployment.

Research Paper Q&A Tool (RAG-based) | Link
Tech Stack: Python, Streamlit, FAISS, OpenAI GPT-4, LangChain, PyPdf
- Built an interactive, chat-style Q&A system that leverages Retrieval-Augmented Generation (RAG) to enable users to ask intelligent, context-aware questions about uploaded research papers

Duplicate Questions Pair Resolution| Link
Tech Stack: Flask, HTML/CSS/JS, NLTK, FuzzyWuzzy, XGBoost Classifier, Render
- Implemented the solution to the 2017 kaggle challenge on quora duplicate questions pair resolution using Xgboost.

Brain Tumor Classification Using Deep Learning with AI Chatbot Assistant
Tech Stack: Python, TensorFlow/Keras, InceptionV3 , NumPy, Pandas, Seaborn, Langchain
- Developed a deep learning model to classify MRI brain scans into four tumor categories.
- Integrated LangChain-based chatbot for AI-powered medical assistance.

TECHNICAL SKILLS

- **Domains**

Data Science, Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Generative AI, Time Series Forecasting
- **Programming Languages**

Python, C, C++, Java
- **Libraries & Frameworks**

NumPy, Pandas, Matplotlib, Seaborn, Plotly, SHAP, Scipy, Statsmodels, Optuna, Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, NLTK, spaCy, Gensim, Pydantic, LangChain, LangGraph
- **Tools & Platforms**

Git, GitHub, Docker, Streamlit, Flask, FastAPI, Jupyter Notebook,Google Colab,Hugging Face,Kaggle

ACHIEVEMENTS

- 2nd Place – Web3SSH Hackathon: Built a blockchain-based AI prompt marketplace using Solidity and React.
- 1st Place – Neural Odyssey (Tech Fest): Developed a stroke prediction app using ML ensemble models.
- 4th Rank – Advent of Code (College Leaderboard): Solved algorithmic coding challenges in Python and C++.
- Global Rank 333 – Kenya Clinical Reasoning Challenge: Replicated clinician decision-making using AI reasoning on 400 expert-labeled cases.
- 2nd Place – Global Game Jam (College Level): Created a 48-hour game Bubbletopia with team collaboration.
- Completed Google Gen-AI courses, earning badges in Generative AI.

ADDITIONAL INFORMATION

- Actively contributing to AI and ML research with a focus on spatial-temporal forecasting.
- Enthusiastic about building AI-powered solutions for real-world problems in healthcare, agriculture, and education.