RAJESWARI DAMAM

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EXPERIENCE

Data Science and Generative Al Intern Innomatics Research Labs

🛗 January 2025 - March 2025

- Designed and optimized retrieval-augmented generation (RAG) pipelines for enhanced Al-driven responses.
- Implemented Generative AI solutions using LangChain for text-based applications.
- Conducted data preprocessing, feature engineering, and exploratory data analysis (EDA)
- Deployed ML models with Streamlit, integrating API-based real-time AI responses for interactive applications.
- Experience with Generative AI, NLP, Streamlit, LangChain

ACHIEVEMENTS

- Finalist Intelligent Innovators Hackathon 2022, Sri Eshwar College of Engineering
- Achieved 4th Place in the All India Campus Ambassador Program by E-Cell, IIT Bombay, for excellence in leadership and entrepreneurship

SKILLS

Programming Languages

• Python, Java, JavaScript, SQL, HTML/CSS

Technologies

Generative AI, Data Analysis, Machine Learning, Deep Learning, LangChain, MongoDB, React, node.js

Tools

• Git/GitHub, Streamlit, Power BI

EDUCATION

Bachelor of Technology (B.Tech), Artificial Intelligence and Machine Learning

Malla Reddy University

2021 - 2025

♥ Hyderabad, Telangana

CGPA: 9.0/10.0

Board of Intermediate Education (12th Grade) Narayana Junior College

2019 - 2021

♀ Kurnool, Andhra Pradesh

Score: 959/1000

Secondary School Certificate (SSC- 10th Grade) Jyothi High School

2018 - 2019

Q Gudur, Andhra Pradesh

CGPA: 9.7/10.0

CERTIFICATIONS

- · Advanced Data Analysis Certification
- Certificate of Excellence Campus Ambassadors (E-Cell,IIT Bombay)
- NPTEL Online Certifications (AI, IoT)

PROJECTS

Enhancing Search Engine Relevance for Video Subtitles

- Built a semantic search engine using TF-IDF and BERT embeddings.
- Optimized retrieval with cosine similarity and ChromaDB. Integrated Whisper for audio query transcription.
- Tools Used: Python, SentenceTransformers, TF-IDF, ChromaDB, Whisper.

Al Chatbot with LangChain and Gemini

- Developed an AI chatbot using LangChain and Streamlit, integrating Google Gemini for intelligent responses.
- Implemented user authentication and RAGbased retrieval for context-aware interactions.
- Tools Used: Python, LangChain, Streamlit, Google Gemini, SQLite

Laptop Price Prediction Using Machine Learning

- Developed a machine learning model for predicting laptop prices based on technical specifications, leveraging data pre-processing, feature engineering, and regression analysis techniques.
- Tools Used: Python, streamlit, scikit-learn, Pandas, NumPy, Seaborn

DeepFake Detection Using Deep Learning

- Designed a deep learning model using ResNext and LSTM for deepfake detection, implementing a robust pipeline for video frame processing, feature engineering, and model training using TensorFlow and Keras.
- Tools Used: Python, TensorFlow, Keras, ResNext, LSTM

Smart Home Automation Using IoT

- Built an ESP32-based IoT system with temperature-controlled fan speed, smart door operations, and real-time gas and smoke detection for enhanced automation and safety.
- Tools Used: ESP32, DHT11, Servo Motor, Bluetooth, Arduino IDE.

INTERESTS

• Reading, Music, Photography and Cooking