

Nitish Sai Kancharla

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GitHub: NitishKancharla

Education

Amrita School of Engineering, Bengaluru

B.Tech in Computer Science Engineering | 2020 – 2024

CGPA: 8.10

Internship Experience

Data Science Intern, Symphonize Solutions, Vijayawada

Jan 2024 – Apr 2024

- Designed and developed AI-powered tools using Google Gemini LLM, Streamlit, and Supabase.
- Built a resume-job match scoring tool using LLMs for skill extraction and fit analysis.
- Created a Tenglish Meme Generator Bot using LLMs and NewsData.io API with real-time topic integration.
- Developed an AI-based Interview Bot with voice integration to simulate real interview environments.
- Collected, annotated, and managed large-scale movie datasets (100+ Telugu movies) for meme generation.
- Leveraged Supabase for database management and Streamlit for interactive UI.

Technical Skills

Languages: Python, C, Java, HTML, JavaScript

Libraries/Tools: Pandas, NumPy, TensorFlow, Hugging Face, Matplotlib, OpenAI API, Streamlit, Supabase

LLMs: Gemini 1.5 Flash, LLaMA 3.2, GPT-2 (fine-tuning), Ollama

Databases: MySQL, OracleDB

Other Tools: AWS SageMaker, CloudFront, S3, Wireshark, Cisco Packet Tracer

Projects

Tenglish Meme Bot

- Used Gemini 1.5 to generate humorous Tenglish memes from trending topics.
- Implemented image annotation, emotion tagging, actor recognition, and metadata association.
- Integrated real-time news APIs, Supabase DB, and Streamlit for seamless delivery.

Resume Match Score (Persimmon)

- Built a resume-job fit scoring engine using Gemini LLM to extract and compare resume details with job descriptions.
- Returned match scores, suggested skill improvements, and job alignment feedback.

AI Interview Bot

- Developed text-based and voice-integrated mock interview platforms using Streamlit, Gemini LLM, and Faster-Whisper.
- Enabled resume upload, question-answer sessions, and personalized feedback.

Power BI Dashboards for Revenue Data

- Created visual dashboards for real-time revenue insights and reporting.

Fine-Tuned GPT-2 for Meme & Interview Q&A Datasets

- Customized GPT-2 for creative content generation and Q&A scenarios using Google Colab.

Research Projects

Detection of Diabetes using Foot Thermography

- Published in IEEE ICCCNT 2024.
- Transformer-based model for detecting diabetic foot ulcers.
- [GitHub: Diabetes-detection](#)

Vision Transformers for Chest X-ray Analysis

- Published in IEEE ICCCNT 2024.
- Compared various CNNs and Transformers for chest disease classification.
- [GitHub: MMDS_HJ](#)

Brain Tumor Classification using AWS Services

- Built a classification pipeline using AWS SageMaker, Cognito, CloudFront, S3.

Honors & Certifications

- IEEE Papers Published: Chest X-ray & Foot Thermography Studies
- Web Development Certification, Udemy