

ABHIJEET MISHRA

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Education

VIT Bhopal University

2022 - Present

Bachelor of Technology in Computer Science - 8.41/10

Bhopal

Narayna Junior College

2021 - 2022

Intermediate 93.4

Hyderabad

Air Force School

2019 - 2020

Secondary 92.6

Hyderabad

Experience

Motherson Technology Service Limited

Nov 2024 - Jan 2025

Project Trainee — GenAI and NLP

- Developed and evaluated three approaches for building an **Excel-based query response model** to extract relevant data from input files, **achieving 85% + accuracy in retrieval**.
- Designed preprocessing workflows to **remove irrelevant noise**, ensuring **cleaner data** for model input.
- Implemented the best-performing solution using the **Transformers library** and the **all-MiniLM** model for embedding parsed values.
- Created a similarity score comparison function, improving query matching **accuracy**.
- Gained hands-on experience in **GenAI, NLP, Pandas, regex**, and **advanced data processing** techniques.

Projects

1. Multi-Modal Query Response System | *Python, , Gemini , SpeechRecognition* [GitHub](#) Dec 2024 - Feb 2025

- Developed a Multi-Modal Query Response Model** that processes PDFs of up to many pages and allows users to interact via **text or voice queries**, delivering **90%+ accurate** responses extracted from document content.
- Implemented Optical Character Recognition (OCR) and Natural Language Processing (NLP)** using **Google Gemini AI**, achieving 90%+ character recognition accuracy.
- Leveraged Retrieval-Augmented Generation (RAG) architecture** to enhance query responses with contextually relevant information, ensuring high accuracy in extracted answers.
- Built a **user-friendly web interface** using **Streamlit**, enabling **real-time PDF uploads**, **voice-based queries**, and **dynamic response generation**, reducing response latency by **50%**.
- Optimized performance with rate-limiting mechanisms and efficient data embeddings**, improving the system's response time and reliability for large documents.

2. AI-Powered Virtual Assistant | *Python, RAG, Gemini, Speech Recognition, NLP, Transformers* Feb2025 - Mar2025

- Developed an **AI-driven virtual assistant** with **PDF document processing**, **voice interaction**, and **intelligent query handling**, achieving **85%+ accuracy** in document comprehension.
- Implemented **Retrieval-Augmented Generation (RAG)** using **Gemini API** to extract and retrieve insights from PDFs.
- Integrated **speech recognition** and **text-to-speech** for seamless voice-based interactions, reducing user friction.
- Enhanced assistant functionality with **Wikipedia search**, **weather updates**, **YouTube automation**, email handling, and finding IP, increasing engagement.
- Built a **context-aware intent recognition system** using **NLP** and **Sentence Embeddings** to understand user queries with **90% precision**.

Technical Skills

Languages: C++, Python, HTML, SQL

Databases: MySQL

Course Work: DBMS, OS

Networking & System Concepts : Routing, TCP/UDP, REST , Bash

Machine Learning & AI : Scikit-Learn, Hugging Face, LangChain, spaCy, LLM Fine-tuning, Prompt Engineering

Frameworks :Tensorflow, Keras

Developer Tools : VS Code, Jupyter Notebook

Certifications

- Bits and Bytes of Computer Networking - Coursera
- Foundations of Cyber Physical Systems - NPTEL