

# ABHIJEET MISHRA

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[GitHub](#)

## Education

### Vellore Institute of Technology

Bachelor of Technology in Computer Science and Engineering

2022 - Present

CGPA: 8.35/10

### Narayana Junior College

Intermediate

2021 - 2022

93.4%

### Air Force School

Matriculate

2019 - 2020

92.6%

## Technical Skills

**Languages:** C++, Python, SQL

**AI/ML & NLP:** Machine Learning, Generative AI, Natural Language Processing, RAG, Hugging Face, LLM Fine-Tuning, Prompt Engineering

**Libraries & Frameworks:** NumPy, Pandas, Scikit-Learn, TensorFlow, Langchain, Sentence Transformers

**Database & APIs:** MySQL, REST APIs

## Experience

### Motherson Technology Services Limited

November 2024 - January 2025

#### Project Trainee - GenAI and NLP

- Orchestrated and evaluated three approaches for building an Excel-based query response model to extract relevant data from input files, achieving 85%+ accuracy in retrieval.
- Streamlined preprocessing workflows to remove irrelevant noise, ensuring up to 30% cleaner data for model input.
- Architected the best-performing solution using the Transformers library and the all-MiniLM model for embedding parsed values.
- Gained hands-on experience in NLP, Pandas, regex, and advanced data preprocessing techniques.

## Projects

### 1. Multi-Modal Query Response System

(April 2025 - May 2025)

[GitHub](#)

- 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.
- Engineered a Streamlit-based web application equipped for real-time PDF uploads and voice-command functionality, resulting in a 50% decrease in average response time.
- 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

(March 2025- April 2025)

[GitHub](#)

- Designed a modular AI Voice Assistant in Python enabling hands-free interaction through Speech Recognition and Text-to-Speech, handling over 20+ common user commands efficiently.
- Implemented context-aware intent recognition using spaCy and Sentence Transformers, achieving an average classification accuracy of 90% across varied test cases.
- Enabled multitasking support by handling diverse functionalities such as real-time information retrieval, entertainment queries, and knowledge lookups, improving user experience by covering multiple daily use scenarios.
- Integrated 5+ third-party APIs (weather, Wikipedia, jokes, IP lookup, advice, etc.) to deliver real-time responses with an average latency of less than 2 seconds. Built an extensible architecture that supports seamless addition of new modules, ensuring maintainability and future scalability of the assistant.

## Achievements & Certifications

- Scored 97.57 Percentile in Naukri Campus Young Turks 2025, achieving an All India Rank (AIR) 431
- AI Fundamentals with IBM SkillsBuild - Cisco Networking Academy (July-2025)
- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional (September-2025)
- Oracle Cloud Infrastructure 2025 Certified Data Science Professional (October-2025)

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