

HENIL R. PANELIYA

Data science undergraduate



CONTACT

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PROFESSIONAL SUMMARY

4th-sem B.Sc Data science student with hands-on experience in AI & ML Projects. Proficient in Python, scikit-learn, pytorch, tensorflow and data preprocessing. Seeking internship opportunities to apply skills and contribute to impactful AI solutions.

PROPOSED PROJECTS

1. Breast Cancer Detection from mamograms using YOLO & CNN

Designed and implemented a hybrid deep learning pipeline combining **YOLO** for tumor localization and a **CNN** classifier for malignancy detection on mammogram images. Applied data preprocessing, augmentation, and false positive reduction techniques. Achieved **97%** detection accuracy in tumor localization and malignancy classification on mammograms; currently writing a **Research Paper** on this work.

2. Mental Health Analyzer using NLP and BERT

Developed a deep learning model using **BERT Transformer** to analyze user text(sentences) and classify **mental health** states such as **anxiety, depression, Suicidal, stress, or normal**. The system preprocesses user statements, applies transformer-based sentiment analysis Achieving **90%** accuracy.

3. Indian Sign Language Interpreter (In Progress)

Developing a real-time system that translates hand gestures into text for deaf and dumb community at the **word level** using deep learning and computer vision techniques. **Natural Language Processing (NLP)** is integrated to correct grammar, suggest context-aware word predictions, and enhance the readability of the generated sentences.

4. DocuChat: Document Q&A and Summarization Chatbot using Gemini API

DocuChat is an intelligent chatbot designed to **interact with documents**, answer questions, and generate concise summaries. It leverages the **Gemini API** to process and understand uploaded documents, allowing users to query content naturally and receive accurate, context-aware responses. This project demonstrates the integration of LLM capabilities.

EDUCATION

JG University | 2024-2025

Artificial Intelligence and Data Science

- Pursuing 1st year
- GPA: 8.3

Sankalp International School | 2024

Nikol, Ahmedabad

Gujrat Board

- 10th Board
- Percentage : 62%
- 12th Board
- Percentage : 76%

SKILLS

TECHNICAL SKILLS

Programming Languages : Python, C, C++,

Java

Webtechnologies : html, css, javascript

Databases : MYSQL

Tools : Git

Concepts : Problem Solving and Algorithm

Design, Machine Learning & Deep Learning

SOFT SKILLS

- Teamwork,
- Problem-Solving,
- Adaptability,
- Work Ethic
- Creativity,
- Attention to Detail
- Active Listening