

# SIDDHANT MAHAJAN

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## EDUCATION

### VIT Bhopal University

(Aug, 2022 – Expected May, 2026)

B. Tech CSE with Specialization in AIML | CGPA: 8.70

## SKILLS

**Languages:** Strong grasp on Python, C++; familiarity with Java, SQL in MySQL.

**Experience:** Machine learning and Deep learning using Scikit-learn, Pandas, TensorFlow, Rapids; Basic Data Analytics using MS Excel, Dataiku, Tableau.

## PROJECTS

### DocuSummary

(July, 2025)

Python, Transformers, VLMs, Generative AI

- A RAG application for streamlining Data Extraction and contextual Query answering using LLMs for PDF documents.
- Utilized Qwen 2.5 VLM, Qwen 3 Embeddings Model and OpenGVLab's InternVL3 model for extraction of textual data description, paired with ChromaDB for fast and scalable similarity searching for related contextual chunks.
- Optimizations to speed and reduced hardware dependency by utilizing quantized models for RAG Pipeline.

### Brain Cancer Detection using Fine-tuned CNNs

(May, 2025)

Python, TensorFlow

- Designed Functional Ensemble models, utilizing MobileNetV3, VGG19 and ResNet50V2 models for finetuning.
- Achieved 96% accuracy on unseen test data of 1000 images.
- Reduced the time taken for training and predictions with the functional model architecture over traditional Ensemble architecture, allowing for expansion of model scopes in future with modular design.

### Lungs Disease Detection through Audio Recordings

(April, 2025)

Python, TensorFlow, Librosa for Audio

- Created a CNN-RNN model to accurately map and identify 8 classes of diseases using audio samples.
- Extraction of audio features using MFCC coefficients, allowing for feature extraction using single dimension CNN filter. The output is then passed as a time series data to RNN layers, providing robust pattern identification and recognition capabilities.

## CO – CURRICULARS AND EXTRA – CURRICULARS

### CO – CURRICULARS

#### Sabudh Foundation – STPI, India

(January 2025 – June, 2025)

- Completed Data Science Internship at Sabudh Foundation (STPI Initiative), gaining hands-on experience with machine learning, deep learning, and natural language processing to solve real-world data problems.
- Utilized Dataiku for data wrangling, model training, and deployment, enhancing efficiency and collaboration in data science workflows.

#### Certificates

- Machine Learning with TensorFlow – FreeCodeCamp
- Applied Machine Learning in Python – Coursera
- Dataiku Developer Certificates – Dataiku

### EXTRA – CURRICULARS

#### National Service Scheme - VIT Bhopal University

- Spearheaded planning for women's empowerment events during 'International Women's Day', resulting in increased local participation and heightened awareness of gender equality issues among villagers.
- Part of NSS – VIT Bhopal 10,000 trees plantation drive, managing a team of 10 volunteers along with coordinating with other 25 teams to make the drive successful.

## ADDITIONAL INFORMATION

**Languages:** English (Professional working proficiency), Hindi and Marathi (Native professional proficiency)

## CODING PROFILE

[GeeksForGeeks](#)

[Leetcode](#)

[ML Notebooks - GitHub](#)