



# Aniruddh Mukherjee

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**Place of birth:** Vadodara, India | **Nationality:** Indian | **Phone number:**

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## ABOUT ME

An ambitious and results-driven entry-level data scientist, skilled in developing predictive models and deploying AI solutions. With expertise in deep learning, natural language processing (NLP), and large language models (LLMs), I focus on driving impactful, data-driven outcomes.

## WORK EXPERIENCE

20/05/2024 – 30/06/2024 Vadodara, India

### STREAMLIT INTERN LINDE ENGINEERING INDIA

- In this Internship I developed a machine learning-driven company website from scratch using Streamlit and made the wire-framing using Figma.
- Gained hands-on experience and knowledge of Streamlit for creating interactive web applications and also leveraged Figma for planning the layout of the website.
- I was also assigned the task to understand and apply Azure AI for efficient data extraction and integration into the website.

15/05/2024 – 15/06/2024 vadodara, India

### MACHINE LEARNING INTERN PRODIGY INFOTECH

- In this Machine Learning Internship where I was given the task to develop several machine learning models.
- The Models were based on different topics such as Support Vector Machines, random forests, and Decision trees for making accurate predictions.
- From this internship I gained insight on hyper parameter tuning and deployment of the models using Streamlit and over cloud platforms.

16/12/2024 – CURRENT Vadodara, India

### INTERN LINDE ENGINEERING INDIA

- In this Internship I have been given the task to create a sqlite3 database from scratch and implement it in a pre-built Streamlit web-application.
- Alongside I have also been assigned the task to implement a Large Language Model (LLM) in the website.
- The LLM implemented in the website is used to extract data from PDF's so that questions can be answered and reports can be generated accordingly.

## EDUCATION AND TRAINING

Vadodara

### 10TH S.S.C New Era Senior Secondary School

**Address** Near Arpan Complex, LG Nagar, Pensionpura, , Nizampura, Vadodara, Gujarat , 390002, Vadodara |

**Website** <https://www.cbse.gov.in/cbsenew/cbse.html> | **Final grade** 84.4%

Vadodara, India

**12TH H.S.C** Parth School of Science and Competition

**Address** Prakash Bhuvan Mangal Pandey Road,, Near, L&T Cir, Karelibagh, Vadodara, Gujarat , 390018, Vadodara, India |

**Website** <https://www.gsebeservice.com/> | **Final grade** 80.8%

06/2021 – CURRENT Nadiad, India

**B.TECH.** Charotar University of Science and Technology

**Address** CHARUSAT Campus, 139, Highway, off Nadiad,, Petlad Road, Changa, Gujarat , 388421, Nadiad, India |

**Website** <https://www.charusat.ac.in/> | **Final grade** 8.53

## LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1
<b>HINDI</b>	C1	B2	C1	C1	B2
<b>GUJARATI</b>	B1	A2	A2	A2	A2
<b>GERMAN</b>	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## DIGITAL SKILLS

programming: Python, MATLAB and SQL | Machine Learning | Deep Learning | Deep Neural Networks (CNNs, GANs) | Natural Language Processing | ML Tools(Tensorflow,Keras) | Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib. | Computer Vision | Image Processing, Image Analysis, Image segmentation | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | n8n

## CONFERENCES AND SEMINARS

Goa, India

**Improvement in Image Segmentation for Flood Images using Unet and U2net**

In the research paper we used the models Unet and U2net for segmentation of flood images, so that the data extracted can be further used to get insights about the current flooded area in the given image.

**Link** <https://drive.google.com/file/d/1iqNrKLHtPOeqS9Yi83xi4hrP8GAWLMvg/view?usp=sharing>

## PROJECTS

01/2024 – 05/2024

**Mistral-7b Instruct-driven Chatbot**

This advanced PDF chatbot, built with Streamlit, revolutionizes PDF interactions by using NLP and machine learning models for efficient information extraction. Integrating Mistral 7B and LangChain, it offers a versatile solution for document management, research, and data analysis.

**Link** <https://github.com/AniruddhMukherjee/ChatwithPDF.git>

08/2024 – 12/2024

**Transformer-Based Language Translation**

A seq2seq-based language translation web app currently translating between German and English, with future potential for multiple languages. It also uses Tesseract OCR for text translation, supporting local languages, and can be used for text, audio, and Images on the website developed using Streamlit.

Link [https://github.com/AniruddhMukherjee/MultiModel\\_Translation\\_Project.git](https://github.com/AniruddhMukherjee/MultiModel_Translation_Project.git)

10/2024 – 12/2024

## Sign Language Detection

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This project uses media-pipe and simple machine learning classifier models to make correct predictions about the sign language. I also used OpenCV to take videos and extract images from the video and media-pipe was used to create a pipeline of the hand signs. Once the pipeline was successfully created, I used Random Forest Classifier to classify between the different hand signs.

Link [https://github.com/AniruddhMukherjee/Sign\\_Langauge\\_Detection.git](https://github.com/AniruddhMukherjee/Sign_Langauge_Detection.git)

05/2023 – 02/2024

## Image Segmentation using Unet and U2net

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Utilized U-Net and U2-Net architectures to improve flood image segmentation, capturing intricate spatial features for more accurate identification of flood-affected areas, supporting better disaster response planning and mitigation efforts.

Link <https://github.com/AniruddhMukherjee/Unet-VS-U2net.git>

## ● COMMUNICATION AND INTERPERSONAL SKILLS

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### Interpersonal Communication

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### Critical Thinking

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### Problem-Solving Skills

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### Public Speaking

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### Time Management

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### Brain Storming

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### Project Management

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## ● VOLUNTEERING

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08/2022 – 02/2023 Vadodara

### AIESEC

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As an Outward Global Volunteer with AIESEC, I made cold calls to students across India, encouraging them to volunteer abroad while studying a semester overseas. I shared inspiring stories of past volunteers and the personal growth that comes from experiencing new cultures. This role enhanced my communication skills and deepened my passion for promoting global citizenship.