

# Aniket Chakraborty

AI/ML Developer at Kolkata

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## PROFILE SUMMARY

An entry level AI/ML developer at Kolkata, focusing on giving AI centric solutions to problems through enormous research and trying different models available in the AI field. Interested in working on AI technologies in big scale with collaboration.

## WORK EXPERIENCE

- **INTERNSHIP** - Data Science Intern [Institute of Pulmocare & Research](#) Kolkata **July 07 2024 – Oct 11 2024**
  - Worked on a project called ‘Can different measurements of cardiac shadow in HRCT chest differentiate normal vs COPD patients?’. Use of data understanding, exploration, project proposal, data collection, data managing, organizing, data cleaning, manipulation, feature engineering, data analysis, statistical analysis, data visualization, graph interpretation, report making, presentation. Use of Python, Excel, OneNote and ImageJ software.
- **FULL-TIME JOB** – AI/ML Developer [Webbies](#) Kolkata CTC: 2.16 LPA **April 07 2025 - Present**
  - A full-time job for providing AI centric solutions to advanced problems. Worked with object detection, object segmentation, svg files, hugging face models, diffusers library, stable diffusion, Image comparison models like ResNet, OpenAI Clip, ViTs, summarization pipelines like Facebook bart, Google’s Pegasus. Worked with Zero-shot object detection models like Grounding Dino

## PERSONAL PROJECTS

[CV House Exterior Structure Segmentation:](#) This project is for a paint company in the market that is working for the last 10-15 years. In this project the problem is to make a visualizer that can help to paint the exterior structures of a building. An image of a building will be taken through camera and the structures will be segmented by SAM. Then for each segmentation masks, the paths will be created in form of a svg file.

[CV Room Interior Wall Segmentation:](#) Zero-shot object detection technique (Grounding Dino) along with SAM is used to detect and further segment the walls. Previously, a mask R-CNN was used but it failed on white surfaces. However, this model is tested on white walls and in most cases, it works with some assumptions or considerations.

[LLM Audio Text Summarizer:](#) An LLM project that uses OpenAI whisper and Facebook’s bart model to first transcribe the text from an audio in .mp3, .wav or in any other format into English. Then the task is to summarize the text. For this the summarization pipeline from transformers library is used. This project is under development as the summarization accuracy must be enhanced.

[GenAI Text Image Generation ColorPicker:](#) This is a GenAI project for generating images using text prompts. Stable Diffusion and dreamlike diffusion models are used and for created for a popular cement company. Also a color picker is attached with it using web development tools (created by ChatGPT)

## EDUCATION QUALIFICATION

Executive Post Graduate Certification in Data Science and Artificial Intelligence Feb 2025 – present  
iHUB IIT Roorkee

Master of Science, Data Science CGPA: 9.4 2022-2024  
Manipal Academy of Higher Education, MAHE

Bachelor of Science(H), Mathematics CGPA: 9.00 2019-2022  
Ramakrishna Mission Vivekananda Centenary College, [WBSU](#)

## TECHNICAL SKILLS

- Python (Pandas, Matplotlib, Seaborn, NumPy, SciPy, Sklearn, PIL, OpenCv), Tableau, R, MSSQL
- Spreadsheet, MS Office, Power point, MS Word, MS Excel,
- Data Analytics, Statistical Analysis, Data Visualization, Linear Algebra, Applied Mathematics, Statistics, ChatGPT, Interpreting Data
- Machine Learning, Deep Learning, AI

## PROFESSIONAL CERTIFICATE COURSES

- [Google Data Analytics](#)
- [Prompt Engineering ChatGPT](#)
- [IBM Data Science](#)
- [Mathematics for ML](#)
- [Data Visualization Tableau](#)

## SOFT SKILLS

- Collaboration, Leadership, Time Management, Goal Oriented, Adaptability, Research Mindset
- Quick Learner, Creativity, Active Listening, Self-disciplined, Communication