

ANKAN DERIA

+91 9832922130 ankandera99@gmail.com

[in linkedin.com/in/ankan-deria-7a8913229](https://www.linkedin.com/in/ankan-deria-7a8913229) github.com/ankan8145 [Portfolio](#)

WORK

Jio Institute

July 2024– Present

Researcher in Computer Vision Medical Imaging Lab

Navi Mumbai, Maharashtra

- Conducting research in computer vision and multimodal learning, with a focus on diffusion modeling, vision-language modeling, segmentation, LLMs, RAG, and generative modeling.

IIT Patna

Jan 2024– Feb 2024

Research Intern in Finance Lab

Remote

- Developing a multi-task model to predict sentiment and emotion class of user comments on financial products. Implementing generative AI techniques to identify the cause behind each comment.

Jio Institute

July 2023– Oct 2023

Research Intern in Computer Vision Medical Imaging Lab

Navi Mumbai, Maharashtra

- Medical Report Generation Model:** Developed a medical report generation model from X-ray images, emphasizing memory efficiency and high performance. Effectively bridged the modality gap between encoder and decoder.
- Medical Image Segmentation:** Build a Generalized Multi-Modal Multi-Organ Network for Precise Segmentation of Medical Images. Here, we incorporate attention gates via skip connections between each encoding and decoding block and robust encoding blocks that help the model concentrate on specific regions of interest.

Calcutta University

Mar 2023– Jun 2023

Research Intern in Data Science Lab

Kolkata, West Bengal

- Modify Character BERT structure:** Modify the architecture to boost accuracy in the URL Classification Dataset. Applied ML and DL techniques for URL classification, conducting a comprehensive comparison of model accuracy.
- Cyrillic URL Classification:** Pioneered the classification of Cyrillic URLs, breaking new ground in the field of cybersecurity.

Omdena

Dec 2022– Aug 2023

Chapter Lead

Remote

- Text Summarization Tool:** Built a text summarization tool to combat information overload by leading the entire team and successfully developing a sequential language model for text summarization. [GitHub Link](#)
- Hateful and Offensive Language Detection:** Developed data pipelines to ingest, process, and clean data in preparation for machine learning applications. [GitHub Link](#)
- Job Recommendation System:** Developed a job recommendation system that considers user skills, suggests necessary skills for specific job roles, and provides curated YouTube resources for acquiring those skills. [GitHub Link](#)

EDUCATION

Government College of Engineering and Leather Technology

Jul 2020 – Jul 2024

B Tech, Computer Science and Engineering, Kolkata, India, CGPA- 9.26

Chandrakona Road Saradamoyee High School

Mar 2018 – Mar 2020

12th, Science(WBCHSE Board), West Bengal, India, Percentage- 94

PUBLICATIONS

Paper: MVLA-MedRAG: Enhancing Radiology Report Generation with Multi-Vision Encoders and Label-Augmented Retrieval

Authors: Ankan Deria, Tanushree Meena, Dwarikanath Mahapatra, Behzad Bozorgtabar, Sudipta Roy

Conference: Paper submitted to IEEE TMI, Year: 2025

Paper: LDMP Net: Learnable Distance Metric Prototypical Network for Few-Shot Spine Disorder Classification

Authors: Tanushree Meena, Debojyoti Pal, Ankan Deria, Kalyan Tadepalli, Dwarikanath Mahapatra, Behzad Bozorgtabar, Sudipta Roy

Conference: Paper submitted to IEEE TETCI, Year: 2025

Paper: L-DNA: Language-Driven Noise Addition for Image Colorization with Rescaled Diffusion Schedules

Authors: **Ankan Deria**, Snehashis Chakraborty, Dwarikanath Mahapatra, Behzad Bozorgtabar, Sudipta Roy

Conference: Paper submitted to IJCAI 2025, Year: 2025

Paper: InVERGe: Intelligent Visual Encoder for Bridging Modalities in Report Generation

Authors: **Ankan Deria**, Komal Kumar, Snehashis Chakraborty, Dwarikanath Mahapatra, Sudipta Roy

Conference: CVPRW 2024; Year: 2024; GitHub: [link to GitHub](#)

Paper: Precise Medical Image Segmentation by Learning Robust Semantic Representations

Authors: Snehashis Chakraborty, Komal Kumar, **Ankan Deria**, Dwarikanath Mahapatra, Behzad Bozorgtabar, Sudipta Roy

Journal: Paper Submitted to AI In Medicine, Year: 2024

Paper: Dual Selective Attention Model for Sentiment and Emotion Identification with Explainable Cause Generation

Authors: **Ankan Deria**, Snehashish Dey , Debayan Ganguly

Conference: Paper accepted to COMSYS-2024; Year: 2024; GitHub: [link to GitHub](#)

Paper: Cyrillic URL-A Malicious Website Classification using Deep Neural Network

Authors: Mainak Sen, **Ankan Deria**, Soumitra Chatterjee, Snehashish Dey, Debayan Ganguly, Amlan Chakrabarti

Conference: ICDEC 2024; Year: 2024; GitHub: [link to GitHub](#)

HACKATHONS WON

COMSYS Hackathon IIT Mandi | 10th

2023

- Developed a predictive model for player price based on historical stats and a text emotion classification solution.

Intra-College Coding Compition | First

2022

- Secured the top position in five intra-college coding competitions hosted by Capsulelabs, demonstrating proficiency by successfully solving eight coding problems in each competition.

NOTABLE GITHUB PROJECTS

Medical Report Generation

- Develop a website for medical report generation. Visit [Huggingface Preview](#)

Player Scores Prediction

- Developed a predictive model for player scores by analyzing key factors such as runs, wickets, and match statistics. Incorporated data from both home and abroad matches, considered opponent teams, and factored in pitch conditions to enhance accuracy.

Personal Portfolio Web App

Image Cartoonification Web App

- Developed a Python-based model for converting images to cartoons and deployed it using Flask.

ACHIEVEMENTS

- Received a job offer from TCS Company for the role of Systems Engineer at Grade C1 (Digital Role).
- Selected in Amazon Summar School Competition, 2022
- Secure 69th rank in Amazon ML Challenge Competition, 2023
- Omdena Kolkata Chapter Lead
- Codechef 3 star coder

SKILLS SUMMARY

Languages: Python, \LaTeX , C, C++, SQL

Frameworks and Tools: ML/DL frameworks, CV, NLP, RAG systems, Vector Database(Pinecone and QDrant), Vector Search, Document preprocessing & Pipeline, ML model deployment, LLM Finetuning, Docker, Gradio

Tools: Excel, Tableau

Soft Skills: Public Speaking, Time Management, Concentrated, Goal Oriented, Self-Motivated