

SUDIPTA SARKAR

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Education

Ramakrishna Mission Residential College

MSc. in Computer Science with CGPA :- 10.00 out of 10.00

Sept. 2023 – Present

Narendrapur, West Bengal, India

Ramakrishna Mission Vivekananda Centenary College

BSc. in Computer Science with CGPA :- 9.72 out of 10.00

Sept. 2020 – May 2023

Rahara, West Bengal, India

Relevant Coursework

- Data Structures
- Design and Analysis of Algorithms
- Theoretical Computer Science
- Database Management
- Data Analysis
- Digital Image Processing
- Machine Learning
- Deep Learning
- Natural Language Processing

Technical Skills

Languages: C, C++, Python, Java, SQL

Developer Tools: VS Code, Jupyter Notebook, Qt Creator

Technologies/Frameworks: OpenCV, Numpy, Pandas, Scikit, TensorFlow, NLTK, LangChain, Linux, GitHub, LaTeX

Projects

Image Steganography And Steganalysis | *Python, Steganography, Deep Learning, CNN*

Ongoing

- A more effective messages hiding technique by using Steganography hence, applying Steganalysis.
- Here our objective is to use some randomization in image hiding and apply some Optimizers (like PSO) to maximize the PSNR and NCC value, then Apply Steganalysis using CNN .

Human Facial Expressions Detection | *Python, Deep Learning, CNN*

May 2023

- The primary idea of our project is to process the input images of human facial emotion to train the model on datasets. In this project we can use a popular deep learning method (Convolutional Neural Networks) to identify the key human emotion .
- Validation Accuracy :- 61.25 percent after 42 epoch.
- This is My Final Year Project work during BSc.

Nuclei Segmentation using UNet | *Python, Deep Learning, UNet*

March 2023

- Cell nuclei segmentation is a fundamental task in microscopy image analysis, based on which multiple biological-related analyses can be performed. Although deep learning (DL) based techniques have achieved state-of-the-art performances in image segmentation tasks, these methods are usually complex and require the support of robust computing resources.

Volunteering Experience

IT Sub-Committee Member Of Vidyarthi Sabha 2023- 2024

Sept. 2023 – Present

IT Consulting

Narendrapur, West Bengal, India

- I am one of the IT Sub-Committee Member Of Vidyarthi Sabha at Ramakrishna Mission Residential College (Autonomous), Narendrapur.

Co-Organizer of Neuroverse Coding Competition

March 2023 – April 2023

Question Setter

Rahara, West Bengal, India

- Neuroverse is a coding competition organised by Ramakrishna Mission Vivekananda Centenary College, Rahara. I am one of the problem setters of this coding competition.

Research Interests

- Computer Vision
- Deep Learning
- Generative AI
- Pattern Recognition
- Natural Language Processing
- Large Language Model