ASIM MANNA

(+91) 6289664072   ✉ asimmanna17@gmail.com   ✉ asimmanna17@kgpian.iitkgp.ac.in   ⊕ Mysite

📍 Sasabedia, Paschim Medinipur, West Bengal, 721121

ACADEMIC CHRONICLE

Indian Institute of Technology Kharagpur, Kharagpur *August 2021 - Present*
Doctor of Philosophy, Centre of Excellence in Artificial Intelligence   Overall GPA: 8.5/10

Indian Statistical Institute, Kolkata *July 2019 - July 2021*
Master of Technology, Cryptology and Security Research Unit   Overall Percentage: 73.55%

University of Calcutta, Kolkata *August 2017 - June 2019*
Master of Science, Department of Pure Mathematics   Overall Percentage: 67.6%

The University of Burdwan, Bardhaman *June 2014 - July 2017*
Bachelor of Science, Department of Mathematics   Overall Percentage: 70.75%

RESEARCH INTEREST

Machine Learning, Deep Learning, Deep Neural Hashing, Image Processing, Medical Image Analysis.

PROJECTS

- **Organ and pathology retrieval using context hashing** *August, 2022 - Present*
  More details

- **Modality, organ, and pathology retrieval using structure hashing** *January, 2023 - Present*
  More details

- **Medical Image Classification using Dilated Residual Network** *August, 2021 -August, 2022*
  More details

- **High dynamic Range Imaging by Multiple Exposure Image** *August-December, 2021*
  More details

- **Investigating Applications of The Target Difference Algorithm in Keccak & Ascon**
  More details   *January-July, 2021*

TECHNICAL STRENGTHS

Computer Languages	Python, Matlab, C, SQL
Software & Tools	Pytorch, Tensorflow, OpenCV, LaTeX, Anaconda

WORK EXPERIENCE

Indian Institute of Technology Kharagpur, Teaching Assistant   *January, 2022 - Present*
- Big Data Processing
- Deep Learning for Visual Computing (NPTEL)
- Machine Learning Foundations and Applications
- Deep Learning Foundations And Applications

Indian Institute of Technology Bhilai, Research Intern   *January-July' 2021*
- Symmetric Key Cryptanalysis on SHA-256 & Ascon

ACADEMIC ACHIEVEMENTS

- Quallified in CSIR-UGC NET Lectureship on 2019 (June) with AIR-94.

- NBHM-2018 (Scholarship) – Written Qualified.

- NBHM-2019 (Fellowship) – Written Qualified.

RELEVANT COURSES

- Deep Learning Foundations and Applications
- Linear Algebra
- Medical Image Analysis
- Artificial Intelligence Foundations and Applications
- Digital Image Processing
- Convex Optimization

REFERENCE

Dr. Debdoot Sheet

Assistant Professor
Department of Electrical Engineering
Centre of Excellence in Artificial Intelligence
Indian Institute of Technology, Kharagpur
Email: debdoot@ee.iitkgp.ac.in