

CONTACT 138/3, 10 no. lane, Nabatirtha, P.O. Udayrajpur (+91)9830075285
 INFORMATION P.S. Madhyamgram, District: North 24 Pgs SkypeID - ayan.das70
 West Bengal, India, Pin-700129. ayan.das@ee.iitkgp.ac.in

RESEARCH INTERESTS **Machine Learning, Deep Learning, High performance computing**

- Theoretical & computational aspects of Machine learning (ML)/Deep learning (DL)
- Efficient implementation of ML/DL algorithms on modern hardware
- High performance parallel/distributed computing

EDUCATION **Indian Institute of Technology (IIT) Kharagpur** 2018

- Currently pursuing M.S. in the Dept. of Electrical Engineering (EE)
- Research Topic: Optimization for Tensor computation & Deep Learning (DL)

Institute of Engineering & Management, Kolkata (India) 2017

University: Maulana Abul Kalam Azad University of Technology (MAKAUT)

- Department of Electronics & Communication Engineering
- DGPA: 7.92/10 (Including all 8 Semesters)
- B.Tech Thesis: *‘Gender recognition from body images using part-based model’*

Udayrajpur Hariharpur High School (WBCHSE) 2013

- Higher Secondary Examination (12th Standard)
- Aggregate: 79%

Barasat Mahatma Gandhi Memorial High School (WBBSE) 2011

- Secondary Examination (10th Standard)
- Aggregate: 79.625%

PUBLICATIONS

1. (Journal) P.P. Roy, A.K. Bhunia, **A.Das**, P.Dhar, U.Pal, “[Keyword spotting in doctors handwriting on medical prescriptions](#)”, Expert Systems with Applications (ESWA, Impact Factor: 2.981), Elsevier. DOI: 10.1016/j.eswa.2017.01.027
2. (Journal) **A.Das**, S.Das, “[Feature Weighting and Selection with a Pareto-optimal Trade-off between Relevancy and Redundancy](#)”, Pattern Recognition Letters (PRL, Impact Factor: 1.586), Elsevier. DOI: 10.1016/j.patrec.2017.01.004
3. (Journal) P.P.Roy, A.K.Bhunia, **A.Das**, P.Dey, U.Pal, “[HMM-based Indic Handwritten Word Recognition using Zone Segmentation](#)”, Pattern Recognition (PR, Impact Factor: 3.399), Elsevier. DOI: 10.1016/j.patcog.2016.04.012
4. (Conference) P.P.Roy, **A.Das**, D.Majhi, U.Pal, “[Retrieval of Scene Image and Video Frames using Date Field Spotting](#)”, The 3 rd IAPR Asian Conference on Pattern Recognition. DOI: 10.1109/ACPR.2015.7486594
5. (Conference) **A.Das**, A.Bhunia, P.P.Roy, U.Pal, “[Handwritten Word Spotting in Indic Scripts using Foreground and Background Information](#)”, The 3 rd IAPR Asian Conference on Pattern Recognition. DOI: 10.1109/ACPR.2015.7486539
6. (Conference) A.K.Bhunia, **A.Das**, P.P.Roy, U.Pal, “[A Comparative Study of Features for Handwritten Bangla Text Recognition](#)”, 13 th International Conference on Document Analysis and Recognition (ICDAR), pp. 636-640. DOI: 10.1109/ICDAR.2015.7333839

RESEARCH EXPERIENCE	2014	Area of Research: Handwritten Text/Document Recognition
	TO	<i>Advisor:</i> Prof. Partha Pratim Roy , Ph.D.
	2015	- Dept. of Computer Science. - Indian Institute of Technology, Roorkee, India.
	2015	Area of Research: Evolutionary Computations & Machine Learning
	TO	<i>Advisor:</i> Dr. Swagatam Das , Ph.D.
	2016	- Electronics and Communication Sciences Unit - Indian Statistical Institute, Kolkata, India
RELEVANT PROJECTS	<ul style="list-style-type: none"> • Currently attached to project “MIRIAD” funded by Intel India Pvt. Ltd. • “digiLib”, a tiny Digital logic circuit designing & simulation library in C++ • “Imaginary”, a computer-vision based mouse and keyboard interface for PCs. • A personal blogging site written in Jekyll (http://dasayan05.github.io/) 	
ACHIEVEMENTS	<ul style="list-style-type: none"> • A member of “Kharagpur Learning, Imaging and Visualization (KLIV) research group” at IIT Kharagpur • Former member of “Innovation and Entrepreneurship Development Center (IEDC Lab)” funded by “Department of Science & Technology (DST), Govt. of India” • Former vice-president of R&D Dept., Entrepreneurship-Cell (E-Cell), IEM Kolkata • Secured Rank 3673 in West Bengal Joint Entrance Examination (WBJEE) in 2013 • Secured Rank 3359 in Graduate Aptitude Test in Engineering (GATE, EC stream) in 2017 	
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Programming Languages: C, C++(11/14), MATLAB, Python 3 • ML/DL framework: PyTorch, Tensorflow • Hardware Exposure: AVR microcontroller, Raspberry Pi • Mathematics: Linear-algebra, Probability, Statistics. • HPC: Cluster management, MPI, OpenMP • Miscellaneous: Linux (OS), \LaTeX, Graphics programming (OpenGL) basics 	
REFERENCES	<p>Dr. Debdoot Sheet Assistant Professor Dept. of Electrical Engineering Indian Institute of Technology, Kharagpur. Phone: +91-3222-283082 E-mail: debdoot@ee.iitkgp.ac.in</p> <p>Dr. Partha Pratim Roy Assistant Professor Dept. of Computer Science Indian Institute of Technology, Roorkee. Phone: +91-1332-284816 E-mail: proy.fcs@iitr.ac.in</p> <p>Dr. Malay Gangopadhyaya Head of the Department Electronics and Communication Engg. Institute of Engineering & Management, Kolkata. Phone: +91-9163584977 E-mail: malay.ganguly@iemcal.com</p>	