

CONTACT INFORMATION	Room 03-BB-00, Alan Turing Building, CVSSP University of Surrey, Guildford, England United Kingdom, Postal code: GU2 7XH	Tel: +44 (0)7425191844 Web: <a href="https://github.com/dasayan05">dasayan05.github.io</a> email: <a href="mailto:a.das@surrey.ac.uk">a.das@surrey.ac.uk</a>
RESEARCH INTERESTS	<b>Computer Vision &amp; Deep Learning</b> <ul style="list-style-type: none"> <li>• Sketch analysis and synthesis; Intersection of Computer Graphics and Vision</li> <li>• Deep Generative Models - Theory and Applications</li> </ul>	
EDUCATION	<p><b>(Present) University of Surrey, United Kingdom</b> 2019 - Present</p> <ul style="list-style-type: none"> <li>- Ph.D. student at <a href="#">Centre for Vision, Speech and Signal Processing</a></li> <li>- Fully funded by <a href="#">iFlyTek</a> Ph.D. Scholarship</li> <li>- Thesis title (tentative): Deep generative models for sketch synthesis</li> </ul> <p><b>Institute of Engineering &amp; Management, Kolkata, India</b> 2013 - 2017</p> <p><b>University:</b> Maulana Abul Kalam Azad University of Technology (MAKAUT)</p> <ul style="list-style-type: none"> <li>- Department of Electronics &amp; Communication Engineering</li> <li>- B.Tech Thesis: <i>‘Gender recognition from body images using part-based model’</i></li> </ul> <p><b>Udayrajpur Hariharpur High School (WBCHSE)</b> 2011 - 2013</p> <ul style="list-style-type: none"> <li>- Higher Secondary Examination (12<sup>th</sup> Standard)</li> </ul> <p><b>Barasat Mahatma Gandhi Memorial High School (WBBSE)</b> 2006 - 2011</p> <ul style="list-style-type: none"> <li>- Secondary Examination (10<sup>th</sup> Standard)</li> </ul>	
PUBLICATIONS (G.SCHOLAR PROFILE)	<ol style="list-style-type: none"> <li>1. (Conference) A. K. Bhunia*, <b>A. Das*</b>, U. Muhammad*, Y. Yang, T. Hospedales, T. Xiang, Y. Gryaditskaya, Y. Song, “<a href="#">Pixelor: A Competitive Sketching AI Agent. So you think you can sketch?</a>”, SIGGRAPH Asia 2020. (*Equal Contribution)</li> <li>2. (Conference) <b>A. Das</b>, Y. Yang, T. Hospedales, T. Xiang, Y. Song, “<a href="#">BézierSketch: A generative model for scalable vector sketches</a>”, European Conference on Computer Vision (ECCV) 2020.</li> <li>3. (Journal) P.P. Roy, A.K. Bhunia, <b>A.Das</b>, P.Dhar, U.Pal, “<a href="#">Keyword spotting in doctor’s handwriting on medical prescriptions</a>”, Expert Systems with Applications.</li> <li>4. (Journal) <b>A.Das</b>, S.Das, “<a href="#">Feature Weighting and Selection with a Pareto-optimal Trade-off between Relevancy and Redundancy</a>”, Pattern Recognition Letters.</li> <li>5. (Journal) P.P.Roy, A.K.Bhunia, <b>A.Das</b>, P.Dey, U.Pal, “<a href="#">HMM-based Indic Handwritten Word Recognition using Zone Segmentation</a>”, Pattern Recognition.</li> <li>6. (Conference) P.P.Roy, <b>A.Das</b>, D.Majhi, U.Pal, “<a href="#">Retrieval of Scene Image and Video Frames using Date Field Spotting</a>”, The 3<sup>rd</sup> IAPR Asian Conference on Pattern Recognition.</li> <li>7. (Conference) <b>A.Das</b>, A.Bhunia, P.P.Roy, U.Pal, “<a href="#">Handwritten Word Spotting in Indic Scripts using Foreground and Background Information</a>”, The 3<sup>rd</sup> IAPR Asian Conference on Pattern Recognition.</li> <li>8. (Conference) A.K.Bhunia, <b>A.Das</b>, P.P.Roy, U.Pal, “<a href="#">A Comparative Study of Features for Handwritten Bangla Text Recognition</a>”, 13<sup>th</sup> International Conference on Document Analysis and Recognition (ICDAR), pp. 636-640.</li> </ol>	

RESEARCH EXPERIENCES	2019	<b>Area of Research: Sketch analysis with Deep Learning</b>
	TO	<i>Advisor: Dr. Yi-Zhe Song, Ph.D.</i>
	NOW	- <a href="#">SketchX Lab</a> , a research group focused on sketch analysis - Co-advisors: <a href="#">Yongxin Yang</a> , <a href="#">Timothy Hospedales</a> (University of Edinburgh)
	2018	<b>Area of Research: Medical Imaging with Deep Learning</b>
	TO	<i>Advisor: Dr. Debdoot Sheet, Ph.D.</i>
	2019	- Indian Institute of Technology Kharagpur, India - Member of “Kharagpur Learning, Imaging and Visualization (KLIV)” research group
	2015	<b>Area of Research: Evolutionary Computations &amp; Machine Learning</b>
PROJECTS (GITHUB PROFILE)	TO	<i>Advisor: Dr. Swagatam Das, Ph.D.</i>
	2016	- Electronics and Communication Sciences Unit - Indian Statistical Institute, Kolkata, India
	2014	<b>Area of Research: Handwritten Text/Document Recognition</b>
	TO	<i>Advisor: Prof. Partha Pratim Roy, Ph.D.</i>
	2015	- Dept. of Computer Science. - Indian Institute of Technology, Roorkee, India.
ACHIEVEMENTS		<ul style="list-style-type: none"> <li>• <a href="#">rlx: A Modular Reinforcement Learning (RL) library</a> for research.</li> <li>• A personal <a href="http://dasayan05.github.io/">website</a> (<a href="http://dasayan05.github.io/">http://dasayan05.github.io/</a>) written in Jekyll</li> <li>• Weekly/Monthly <a href="https://dasayan05.github.io/blogs.html">tutorials</a> (<a href="https://dasayan05.github.io/blogs.html">https://dasayan05.github.io/blogs.html</a>) on wide range of intermediate/advanced topics</li> <li>• Worked in project “MIRIAD” funded by <b>Intel India Pvt. Ltd.</b></li> <li>• “Imaginary”, a computer-vision based mouse and keyboard interface for PCs</li> </ul>
		<ul style="list-style-type: none"> <li>• <a href="#">Intel Student Ambassador</a> (Asia Pacific &amp; Japan) for Artificial Intelligence (A.I.)</li> <li>• Former member of “Innovation and Entrepreneurship Development Center (IEDC Lab)” funded by “Department of Science &amp; Technology (DST), Govt. of India”</li> <li>• Former vice-president of R&amp;D Dept., Entrepreneurship-Cell (E-Cell), IEM Kolkata</li> <li>• Secured Rank 3673 in West Bengal Joint Entrance Examination (WBJEE) in 2013</li> <li>• Secured Rank 3359 in Graduate Aptitude Test in Engineering (GATE, EC stream) in 2017</li> </ul>
TECHNICAL SKILLS		<ul style="list-style-type: none"> <li>• Programming Languages: C/C++, MATLAB, Python, Julia</li> <li>• ML/DL framework: PyTorch (Highly proficient), Tensorflow</li> <li>• Mathematics: Linear-algebra, Probability, Statistics</li> <li>• HPC: Cluster management, MPI, OpenMP</li> <li>• Web: Basics of front-end, back-end, Flask, REST APIs</li> <li>• Miscellaneous: Linux, <math>\text{\LaTeX}</math>, Version control (Git), CUDA</li> </ul>
REFERENCES	Will be provided upon request.	