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| CONTACT INFORMATION                 | Room 03-BB-00, Alan Turing Building, CVSSP<br>University of Surrey, Guildford, England<br>United Kingdom, Postal code: GU2 7XH  | Tel: +44 (0)7425191844<br>Web: <a href="https://github.com/dasayan05">dasayan05.github.io</a><br>email: <a href="mailto:a.das@surrey.ac.uk">a.das@surrey.ac.uk</a> |
| BROAD 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 Reinforcement Learning (RL) - theory and applications</li> <li>• Probabilistic Graphical Models</li> </ul>  |  |
| EDUCATION                           | <b>University of Surrey, United Kingdom</b> 2019 - Present <ul style="list-style-type: none"> <li>- Ph.D. in <a href="#">Center for Vision, Speech and Signal Processing (CVSSP)</a></li> <li>- Funded by <a href="#">iFlyTek</a> Ph.D. Scholarship</li> <li>- Associated with <a href="#">SketchX Lab</a>, directed by my supervisor Dr. Yi-Zhe Song</li> <li>- Research Topic: Deep generative models for sketch synthesis</li> </ul> <b>Institute of Engineering &amp; Management, Kolkata (India)</b> 2013 - 2017<br><b>University:</b> Maulana Abul Kalam Azad University of Technology (MAKAUT) <ul style="list-style-type: none"> <li>- Department of Electronics &amp; Communication Engineering</li> <li>- DGPA: 7.92/10 (Including all 8 Semesters)</li> <li>- B.Tech Thesis: <i>‘Gender recognition from body images using part-based model’</i></li> </ul> <b>Udayrajpur Hariharpur High School (WBCHSE)</b> 2011 - 2013 <ul style="list-style-type: none"> <li>- Higher Secondary Examination (12<sup>th</sup> Standard)</li> </ul> <b>Barasat Mahatma Gandhi Memorial High School (WBBSE)</b> 2006 - 2011 <ul style="list-style-type: none"> <li>- Secondary Examination (10<sup>th</sup> Standard)</li> </ul>  |  |
| PUBLICATIONS<br>(G.SCHOLAR PROFILE) | <ol style="list-style-type: none"> <li>1. (Conference) <b>A. Das</b>, Y. Yang, T. Hospedales, T. Xiang, Y. Song, “BézierSketch: A generative model for scalable vector sketches”, European Conference on Computer Vision (ECCV) 2020.</li> <li>2. (Journal) P.P. Roy, A.K. Bhunia, <b>A.Das</b>, P.Dhar, U.Pal, “Keyword spotting in doctor’s handwriting on medical prescriptions”, Expert Systems with Applications.</li> <li>3. (Journal) <b>A.Das</b>, S.Das, “Feature Weighting and Selection with a Pareto-optimal Trade-off between Relevancy and Redundancy”, Pattern Recognition Letters.</li> <li>4. (Journal) P.P.Roy, A.K.Bhunia, <b>A.Das</b>, P.Dey, U.Pal, “HMM-based Indic Handwritten Word Recognition using Zone Segmentation”, Pattern Recognition.</li> <li>5. (Conference) P.P.Roy, <b>A.Das</b>, D.Majhi, U.Pal, “Retrieval of Scene Image and Video Frames using Date Field Spotting”, The 3<sup>rd</sup> IAPR Asian Conference on Pattern Recognition.</li> <li>6. (Conference) <b>A.Das</b>, A.Bhunia, P.P.Roy, U.Pal, “Handwritten Word Spotting in Indic Scripts using Foreground and Background Information”, The 3<sup>rd</sup> IAPR Asian Conference on Pattern Recognition.</li> <li>7. (Conference) A.K.Bhunia, <b>A.Das</b>, P.P.Roy, U.Pal, “A Comparative Study of Features for Handwritten Bangla Text Recognition”, 13<sup>th</sup> International Conference on Document Analysis and Recognition (ICDAR), pp. 636-640.</li> </ol> |  |

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| RESEARCH<br>EXPERIENCES      | 2019                           | <b>Area of Research: Sketch analysis with Deep Learning</b>   |
|                              | TO                             | <i>Advisor: Dr. Yi-Zhe Song, Ph.D.</i>  |
|                              | NOW                            | - Center for Vision, Speech and Signal Processing (CVSSP)<br>- University of Surrey, United Kingdom   |
|                              | 2018                           | <b>Area of Research: Medical Imaging with Deep Learning</b>   |
|                              | TO                             | <i>Advisor: Dr. Debdoot Sheet, Ph.D.</i>  |
|                              | 2019                           | - Dept. of Electrical Engineering<br>- Indian Institute of Technology Kharagpur, India<br>- Member of “Kharagpur Learning, Imaging and Visualization (KLIV)”<br>research group  |
|                              | 2015                           | <b>Area of Research: Evolutionary Computations &amp; Machine Learning</b>   |
| PROJECTS<br>(GITHUB PROFILE) | TO                             | <i>Advisor: Dr. Swagatam Das, Ph.D.</i>   |
|                              | 2016                           | - Electronics and Communication Sciences Unit<br>- 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.<br>- Indian Institute of Technology, Roorkee, India.   |
| ACHIEVEMENTS                 |                                | <ul style="list-style-type: none"> <li>• <a href="#">rlx</a>: A Modular Reinforcement Learning (RL) library for research.</li> <li>• A personal website (<a href="http://dasayan05.github.io/">http://dasayan05.github.io/</a>) written in Jekyll</li> <li>• Weekly/Monthly tutorials (<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> |
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| TECHNICAL<br>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>• Miscellaneous: Linux, L<sup>A</sup>T<sub>E</sub>X, Version control (Git), CUDA</li> </ul>   |
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| REFERENCES                   | Will be provided upon request. |   |