

CONTACT INFORMATION	Room 03-BB-00, Alan Turing Building, CVSSP University of Surrey, Guildford, England United Kingdom, Postal code: GU2 7XH	website: <a href="http://ayandas.me">ayandas.me</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	<b>(Ongoing) University of Surrey, United Kingdom</b> 2019 - Present <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 scalable sketch synthesis</li> </ul> <b>Institute of Engineering &amp; Management, Kolkata, India</b> 2013 - 2017 <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>- 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>	
RESEARCH EXPERIENCES	2019 <b>Area of Research: Sketch analysis with Deep Learning</b> TO <i>Advisor:</i> <a href="#">Dr. Yi-Zhe Song</a> , Ph.D. 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:</i> <a href="#">Dr. Debdoot Sheet</a> , Ph.D. 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> TO <i>Advisor:</i> <a href="#">Dr. Swagatam Das</a> , Ph.D. 2016 - Electronics and Communication Sciences Unit - Indian Statistical Institute, Kolkata, India 2014 <b>Area of Research: Handwritten Text/Document Recognition</b> TO <i>Advisor:</i> Prof. <a href="#">Partha Pratim Roy</a> , Ph.D. 2015 - Dept. of Computer Science. - Indian Institute of Technology, Roorkee, India.	
PROJECTS (GITHUB PROFILE)	<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="https://ayandas.me/">https://ayandas.me/</a>) written in Jekyll</li> <li>• Weekly/Monthly tutorials (<a href="https://ayandas.me/blogs.html">https://ayandas.me/blogs.html</a>) on wide range of intermediate or advanced topics</li> <li>• Worked in project "MIRIAD" funded by <b>Intel India Pvt. Ltd.</b></li> </ul>	

PUBLICATIONS  
(G.SCHOLAR PROFILE)

1. (Conference) **A. Das**, Y. Yang, T. Hospedales, T. Xiang, Y. Song, “SketchODE: Learning neural sketch representation in continuous time”, (Accepted as Poster) International Conference on Learning Representations (ICLR), 2022 .
2. (Conference) **A. Das**, Y. Yang, T. Hospedales, T. Xiang, Y. Song, “Cloud2Curve: Generation and Vectorization of Parametric Sketches”, Computer Vision and Pattern Recognition (CVPR) 2021.
3. (Conference) A. K. Bhunia\*, **A. Das**\*, U. Muhammad\*, Y. Yang, T. Hospedales, T. Xiang, Y. Gryaditskaya, Y. Song, “Pixelor: A Competitive Sketching AI Agent. So you think you can sketch?”, SIGGRAPH Asia 2020. (\*Equal Contribution)
4. (Conference) **A. Das**, Y. Yang, T. Hospedales, T. Xiang, Y. Song, “BézierSketch: A generative model for scalable vector sketches”, European Conference on Computer Vision (ECCV) 2020.
5. (Journal) P.P. Roy, A.K. Bhunia, **A.Das**, P.Dhar, U.Pal, “Keyword spotting in doctor’s handwriting on medical prescriptions”, Expert Systems with Applications.
6. (Journal) **A.Das**, S.Das, “Feature Weighting and Selection with a Pareto-optimal Trade-off between Relevancy and Redundancy”, Pattern Recognition Letters.
7. (Journal) P.P.Roy, A.K.Bhunia, **A.Das**, P.Dey, U.Pal, “HMM-based Indic Handwritten Word Recognition using Zone Segmentation”, Pattern Recognition.
8. (Conference) P.P.Roy, **A.Das**, 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.
9. (Conference) **A.Das**, 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.
10. (Conference) A.K.Bhunia, **A.Das**, 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.

PROFESSIONAL  
& VOLUNTARY  
WORK

- Working as a Teaching Assistant (TA) for the graduate course “Image processing and Deep Learning (EEEM063)” offered by University of Surrey along with two instructors.
- Serving as reviewer for top conferences (CVPR, ICCV, BMVC, ACM SIGGRAPH, SIGGRAPH Asia) and journals (Elsevier Neural Networks).
- Intel Student Ambassador (Asia Pacific & Japan) for Artificial Intelligence (A.I.)
- Former member of “Innovation and Entrepreneurship Development Center (IEDC Lab)” funded by “Department of Science & Technology (DST), Govt. of India”

TECHNICAL  
SKILLS

- Programming Languages: C/C++, MATLAB, Python, Julia
- ML/DL framework: PyTorch (Highly proficient), Tensorflow
- Mathematics: Linear-algebra, Probability, Statistics
- HPC: Cluster management, MPI, OpenMP
- Web: Basics of front-end, back-end, Flask, REST APIs

REFERENCES

Will be provided upon request.