

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: ayandas.me email: a.das@surrey.ac.uk
RESEARCH INTERESTS	Computer Vision & Deep Learning <ul style="list-style-type: none"> • Sketch analysis and synthesis; Intersection of Computer Graphics and Vision • Deep Generative Models - Theory and Applications 	
EDUCATION	<p>(Present) University of Surrey, United Kingdom 2019 - Present</p> <ul style="list-style-type: none"> - Ph.D. student at Centre for Vision, Speech and Signal Processing - Fully funded by iFlyTek Ph.D. Scholarship - Thesis title (tentative): Deep generative models for sketch synthesis <p>Institute of Engineering & Management, Kolkata, India 2013 - 2017</p> <p>University: Maulana Abul Kalam Azad University of Technology (MAKAUT)</p> <ul style="list-style-type: none"> - Department of Electronics & Communication Engineering - B.Tech Thesis: <i>‘Gender recognition from body images using part-based model’</i> <p>Udayrajpur Hariharpur High School (WBCHSE) 2011 - 2013</p> <ul style="list-style-type: none"> - Higher Secondary Examination (12th Standard) <p>Barasat Mahatma Gandhi Memorial High School (WBBSE) 2006 - 2011</p> <ul style="list-style-type: none"> - Secondary Examination (10th Standard) 	
PUBLICATIONS (G.SCHOLAR PROFILE)	<ol style="list-style-type: none"> 1. (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) 2. (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. 3. (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. 4. (Journal) A.Das, S.Das, “Feature Weighting and Selection with a Pareto-optimal Trade-off between Relevancy and Redundancy”, Pattern Recognition Letters. 5. (Journal) P.P.Roy, A.K.Bhunia, A.Das, P.Dey, U.Pal, “HMM-based Indic Handwritten Word Recognition using Zone Segmentation”, Pattern Recognition. 6. (Conference) P.P.Roy, A.Das, D.Majhi, U.Pal, “Retrieval of Scene Image and Video Frames using Date Field Spotting”, The 3rd IAPR Asian Conference on Pattern Recognition. 7. (Conference) A.Das, A.Bhunia, P.P.Roy, U.Pal, “Handwritten Word Spotting in Indic Scripts using Foreground and Background Information”, The 3rd IAPR Asian Conference on Pattern Recognition. 8. (Conference) A.K.Bhunia, A.Das, P.P.Roy, U.Pal, “A Comparative Study of Features for Handwritten Bangla Text Recognition”, 13th International Conference on Document Analysis and Recognition (ICDAR), pp. 636-640. 	

RESEARCH EXPERIENCES	2019	Area of Research: Sketch analysis with Deep Learning
	TO	<i>Advisor: Dr. Yi-Zhe Song, Ph.D.</i>
	NOW	- SketchX Lab , a research group focused on sketch analysis - Co-advisors: Yongxin Yang , Timothy Hospedales (University of Edinburgh)
	2018	Area of Research: Medical Imaging with Deep Learning
	TO	<i>Advisor: Dr. Debdeep Sheet, Ph.D.</i>
	2019	- Indian Institute of Technology Kharagpur, India - Member of “Kharagpur Learning, Imaging and Visualization (KLIV)” research group
	2015	Area of Research: Evolutionary Computations & Machine Learning
	TO	<i>Advisor: Dr. Swagatam Das, Ph.D.</i>
PROJECTS (GITHUB PROFILE)	2016	- Electronics and Communication Sciences Unit - Indian Statistical Institute, Kolkata, India
	2014	Area of Research: Handwritten Text/Document Recognition
	TO	<i>Advisor: Prof. Partha Pratim Roy, Ph.D.</i>
	2015	- Dept. of Computer Science. - Indian Institute of Technology, Roorkee, India.
		<ul style="list-style-type: none"> • rlx: A Modular Reinforcement Learning (RL) library for research. • A personal website (https://ayandas.me/) written in Jekyll • Weekly/Monthly tutorials (https://ayandas.me/blogs.html) on wide range of intermediate or advanced topics • Worked in project “MIRIAD” funded by Intel India Pvt. Ltd. • “Imaginary”, a computer-vision based mouse and keyboard interface for PCs
PROFESSIONAL & VOLUNTARY WORK		<ul style="list-style-type: none"> • Serving as reviewer for top conferences (ICCV, ACM SIGGRAPH) 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” • Former vice-president of R&D Dept., Entrepreneurship-Cell (E-Cell), IEM Kolkata
TECHNICAL SKILLS		<ul style="list-style-type: none"> • 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 • Miscellaneous: Linux, \LaTeX, Version control (Git), CUDA
REFERENCES	Will be provided upon request.	