

CONTACT INFORMATION	Room 03-BB-00, Alan Turing Building, CVSSP University of Surrey, Guildford, Surrey United Kingdom, Postal code: GU2 7XH.	My Homepage a.sain@surrey.ac.uk saneeshan95@gmail.com
RESEARCH INTERESTS	Computer Vision, Deep Learning, Sketch Analysis	
EDUCATION	University of Surrey, UK - Centre for Vision, Speech and Signal Processing (CVSSP) - Department of Electrical and Electronic Engineering - Faculty of Engineering and Physical Sciences - Current Status: Postgraduate Research Student	since Oct 2019
	Institute of Engineering & Management, Kolkata (India) University: Maulana Abul Kalam Azad University of Technology <i>Formerly known as West Bengal University of Technology</i> - Department of Electrical Engineering - DGPA: 8.14/10 (Including all 8 Semesters) - Current Status: Graduated with Bachelor of Technology in Electrical Engineering - B.Tech Thesis: <i>'Intelligent Battery Management System'</i>	2017
	St. Xaviers Collegiate School, Kolkata (India) - Indian School Certificate(12 th Standard or A-level) - Aggregate: 94.3%	2013
	St. Xaviers Collegiate School, Kolkata (India) - Indian Certificate for Secondary Education (10 th Standard or O-level) - Aggregate: 95.2%	2011
RESEARCH EXPERIENCES	University of Surrey, UK - PhD Student - Under: Prof. Yi-Zhe Song and Prof. Tao Xiang	since Oct 2019
	Indian Statistical Institute (ISI), Kolkata, India - Research Intern - Under Prof. Umapada Pal and Dr. Partha Pratim Roy	Feb 2016 - Dec 2017
	Indian Institute of Technology Roorkee (IITR), India - Undergraduate Student Researcher - Under Dr. Partha Pratim Roy	Dec 2015 - Jan 2016
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Programming Languages: C, MATLAB, Python, JAVA, JCL, COBOL. • Low level Programming : Atmel AVR (Atmega32) & 8085 Assembly, HLA. • ML/DL Framework: Pytorch (Proficient). • Hardware Exposure: AVR Micro-controller, Arduino. • Mathematics: Linear-algebra, Probability, Statistics, Calculus. • Web: Basics of HTML and CSS. • Miscellaneous: LATEX, Version control (Git), OpenCV. 	

1. Text is Text, No Matter What: Unifying Text Recognition using Knowledge Distillation.
Ayan Kumar Bhunia, **Aneeshan Sain**, Pinaki Nath Chowdhury, Yi-Zhe Song.
IEEE International Conference on Computer Vision (ICCV), **2021**.
2. Towards the Unseen: Iterative Text Recognition by Distilling from Errors.
Ayan Kumar Bhunia, Pinaki Nath Chowdhury, **Aneeshan Sain**, Yi-Zhe Song.
IEEE International Conference on Computer Vision (ICCV), **2021**.
3. Joint Visual Semantic Reasoning: Multi-Stage Decoder for Text Recognition.
Ayan Kumar Bhunia, **Aneeshan Sain**, Amandeep Kumar, Shuvojit Ghose, Pinaki Nath Chowdhury, Yi-Zhe Song.
IEEE International Conference on Computer Vision (ICCV), **2021**.
4. StyleMeUp: Towards Style-Agnostic Sketch-Based Image Retrieval.
Aneeshan Sain, Ayan Kumar Bhunia, Yongxin Yang, Tao Xiang, Yi-Zhe Song.
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), **2021**.
5. PQA: Perceptual Question Answering.
Yonggang Qi, Kai Zhang, **Aneeshan Sain**, Yi-Zhe Song.
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), **2021**.
6. More Photos are All You Need: Semi-Supervised Learning for Fine-Grained Sketch Based Image Retrieval.
Ayan Kumar Bhunia, Pinaki Nath Chowdhury, **Aneeshan Sain**, Yongxin Yang, Tao Xiang, Yi-Zhe Song.
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), **2021**.
7. MetaHTR: Towards Writer-Adaptive Handwritten Text Recognition.
Ayan Kumar Bhunia, Shuvojit Ghose, Amandeep Kumar, Pinaki Nath Chowdhury, **Aneeshan Sain**, Yi-Zhe Song.
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), **2021**.
8. S³Net: Graph Representational Network For Sketch Recognition.
Lan Yang, **Aneeshan Sain**, Linpeng Li, Yonggang Qi, Honggang Zhang, Yi-Zhe Song.
International Conference on Multimedia & Expo (ICME), **2020**.
9. Cross-Modal Hierarchical Modelling for Fine-Grained Sketch Based Image Retrieval.
Aneeshan Sain, Ayan Kumar Bhunia, Yongxin Yang, Tao Xiang, Yi-Zhe Song.
British Machine Vision Conference (BMVC), **2020 [Oral]**.
10. Zone-based keyword spotting in Bangla and Devanagari documents.
Ayan Kumar Bhunia, Partha Pratim Roy, **Aneeshan Sain**, Umapada Pal.
Multimedia Tools and Applications, Springer US, **2020**.
11. Improving Document Binarization via Adversarial Noise-Texture Augmentation.
Ankan Kumar Bhunia, Ayan Kumar Bhunia, **Aneeshan Sain**, Partha Pratim Roy.
International Conference on Image Processing (ICIP), IEEE **2019**.
12. Background Subtraction based on Integration of Alternative Cues in Freely Moving Camera.
Chenqiu Zhao, **Aneeshan Sain**, Ying Qu, Yongxin Ge, Haibo Hu.
IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), **2019**.

13. Indic Handwritten Script Identification using Offline-Online Multimodal Deep Network.
Ayan Kumar Bhunia, Subham Mukherjee, **Aneeshan Sain**, Ankan Kumar Bhunia,
Partha Pratim Roy, Umapada Pal.
Information Fusion, Elsevier, **2018**.
14. Multi-Oriented Text Detection and Verification in Video Frames and Scene Images.
Aneeshan Sain, Ayan Kumar Bhunia, Partha Pratim Roy, Umapada Pal.
Neurocomputing, Elsevier, **2018**.

PROFESSIONAL EXPERIENCE	Organisation	: Cognizant Technological Solutions
	Job Title	: Programmer Analyst
	Role	: Mainframe Developer
	Technology Used	: JCL, COBOL, Assembly Language (HLA)
	Duration	: Dec 2017 to Sep 2019

REFERENCES Will be provided upon request.