## Sounak Mondal

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## Education

Stony Brook University, Stony Brook, NY Doctor of Philosophy, Computer Science	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Advised by Minh Hoai Nguyen, Dimitris Samaras, Gregory Zelinsky. I	also collaborate with Niranjan Balasubramanian.
Jadavpur University, Kolkata, India Bachelor of Engineering, Computer Science & Engineering	<b>August, 2013 – May, 2017</b> GPA(Absolute Grading): 8.65/10.00, Rank: 3/54
Publications	
1. Look Hear: Gaze Prediction for Speech-directed Human As Sounak Mondal, S. Ahn, Z. Yang, N. Balasubramanian, D. Samar	
<ol> <li>Diffusion-Refined VQA Annotations for Semi-Supervised G Q. Miao, A. Graikos, J. Zhang, Sounak Mondal, M. Hoai, D. Sam</li> </ol>	-
3. Unifying Top-down and Bottom-up Scanpath Prediction us Z. Yang, Sounak Mondal, S. Ahn, R. Xue, G. Zelinsky, M. Hoai, I	-
4. Gazeformer: Scalable, Effective and Fast Prediction of Goa Sounak Mondal, Z. Yang, S. Ahn, D. Samaras, G. Zelinsky, M. He	
<ol> <li>Target-absent Human Attention</li> <li>Z. Yang, Sounak Mondal, S. Ahn, G. Zelinsky, M. Hoai, D. Samar</li> </ol>	ras
<ol> <li>Characterizing Target-absent Human Attention</li> <li>Y. Chen, Z. Yang, S. Chakraborty, Sounak Mondal, S. Ahn, D. Sa</li> </ol>	CVPR Workshop 2022 amaras, M. Hoai, G. Zelinsky
7. ICAN: Introspective Convolutional Attention Network for Sounak Mondal, S. Modi, S. Garg, D. Das, S. Mukherjee	Semantic Text Classification ICSC 2020
8. Violent/Non-Violent Video Classification based on Deep N Sounak Mondal, S. Pal, S.K. Saha, B. Chanda	eural Network ICAPR 2017
<ol> <li>A Beta Distribution Based Novel Scheme for Detection of S. Pal, Sounak Mondal, S.K. Saha, B. Chanda</li> </ol>	Changes in Crowd Motion ICVGIP(WS) 2016
Experience	
Research Scientist Intern   Meta Reality Labs - Research, Rec Vision-Language Modeling of Human Eye Gaze Behavior.	<b>Imond, WA</b> June, 2024 – Present
Research Intern   UII America, Cambridge, MA	May, 2023 – August, 2023
Vision-Language (Multimodal) Modeling - Scene Graph Generation fro	
Graduate Researcher   CV Lab, Stony Brook University, NY	November, 2020 – Present
<ul> <li>Generative Modeling of multimodal perception using Multimodal</li> <li>Human Attention (Eye Gaze) Prediction for multimodal (vision-la</li> <li>Human Attention (Eye Gaze) Prediction for visual search and free</li> <li>Human Gaze Estimation using VQA and diffusion models (ECCV)</li> </ul>	LLMs and diffusion models (ongoing) anguage) tasks (CVPR'23, ECCV'24) e-viewing (ECCV'22, CVPRW'22, CVPR'24)
NLP Engineer   Samsung Research Institute, Bangalore	June, $2017 - August$ , $2020$
<ul> <li>Deep learning-based enhancements for Bixby digital assistant, such learning, (2) Sequence Labeling for Named Entity Recognition an</li> <li>Proposed a lightweight and fast text classification architecture (IC)</li> </ul>	d speech end-point detection
Summer Intern   Samsung Research Institute, Bangalore	May, $2016 - July$ , $2016$
Context awareness in SVoice platform for Natural Language Processing	
Undergraduate Researcher   Indian Statistical Institute, Kolka Video Action Recognition/Detection (ICAPR'17, ICVGIP Workshop'10	ata July, 2015 – June, 2017
Academic & Technical Details	

**Research Experience**: Computer Vision, Deep Learning, Multimodal Learning, Natural Language Processing **Graduate Courses**: Computer Vision, Natural Language Processing, Robotics, Machine Learning, Database Systems **Languages & Frameworks**: Python, C++, C, Java, LATEX, PyTorch, TensorFlow, Hugging Face, OpenCV, NLTK, spaCy, Hadoop (familiar), Spark (familiar)