Shashi Kant Gupta

Data Scientist
Conversational AI, RingCentral Innovation (India)

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EDUCATION		
	Indian Institute of Technology, Kanpur, India	Jul '16 - Jul. '21
	Dual Degree BT-MT Student, *Department of Electrical Engineering*	[master thesis]
	*Master GPA: 10.0/10.0	Bachelor GPA: 8.9/10.0*	
	Advisors: *Prof. K. S. Venkatesh, IIT Kanpur* and *Dr. Gabriel Kreiman, Harvard Medical School*	

WORK EXPERIENCE		
	Data Scientist, Conversational AI, RingCentral Innovation (India)	Jul '21 - Present
	AI features for RingCentral's video platform and voice-mailbox. Worked majorly on *Text Punctuation Restoration*, *Multilingual Speech Recognition*, and *Spoken Language Identification*.	
	Research Assistant, Kreiman Lab, Harvard Medical School, Boston, USA	May '19 - May '21
	Computational Modelling of Visual Search and Attention	[paper] [code]
	R&D Intern, Dr Hock Beng Lim, Centre for Smart System, SUTD Singapore	Jun '18 - Jul '18
	Using Optical Flow for Localisation of UAVs in Deep Tunnel	

PUBLICATIONS (PEER-REVIEWED)

[1] **Shashi Kant Gupta**, Mengmi Zhang, Chia-Chien Wu, Jeremy M. Wolfe, Gabriel Kreiman (2021) "Visual Search Asymmetry: Deep Nets and Humans Share Similar Inherent Biases", *Thirty-Fifth Conference on Neural Information Processing Systems* (*NeurIPS 2021*) [paper] [code]

[2] Shivi Gupta, **Shashi Kant Gupta** "Emotion-Color Association in Biologically Inspired Deep Neural Networks", *Annual Conference of the Cognitive Science Society 2021 (Abstract)* [paper]

[3] **Shashi Kant Gupta** "Reinforcement Based Learning on Classification Task Could Yield Better Generalisation and Adversarial Accuracy", *Workshop on Shared Visual Representations in Human and Machine Intelligence, NeurIPS 2020* [paper]

[4] **Shashi Kant Gupta** "A More Biologically Plausible Local Learning Rule for ANNs", *Beyond Backpropagation Workshop - Novel Ideas for Training Neural Architectures, NeurIPS 2020* [paper]

OTHER PROJECTS		
	Deep Embedding Clustering For Speaker Diarization [code] [report]	March. '21 - May. '21
	3D Human Pose Estimation using Multi Camera [code] [report]	Feb '20 - Apr. '20
	Design and Development of Humanoid Robot [demo] [report]	Dec '16 - Apr '19
	Real Time Human Facial Emotion Recognition [demo] [code]	Nov. '18 – Dec. '18
	Relating Artificial Neural Networks with Brain [pres]	Sep. '18 – Nov. '18

PROJECTS MENTORED		
	Do Deep Nets Capture Color Based Emotions? [paper]	May '20 - Oct '20
	Comparing DNN Features with Psychological Representations [poster]	May '20 - Aug '20
	The Omniglot Challenge [poster]	May '20 - Aug '20

TECHNICAL SKILLS

Languages: Python • C • Matlab

Software and Tools: PyTorch • TensorFlow • Keras • HuggingFace Transformers • Nvidia Nemo • OpenCV • scikit-learn • NumPy • pandas • Git • ROS • Arduino

HONORS & ACHIEVEMENTS

- Founded Brain and Cognitive Society at IIT Kanpur [BCS@IITK Homepage]
- Fellowship awardee for the prestigious Khorana Program for Scholars 2019, IUSSTF
- Received Academic Excellence Award twice for outstanding academic performance (2016 & 2016-17)

TALKS AND TUTORIALS		
	Artificial and Biological Neural Networks, *BCS @IITK*	[Link] **[Dec 12, 2019]**
	Talk on Role of Brain Science in AI, *BCS @IITK*	[Link] **[Oct 25, 2019]**
	Introduction and Quick Start to ROS, *Robotics Club, IITK*	[Link] **[May 29, 2017]**