

Shashi Kant Gupta

Data Scientist

Conversational AI, RingCentral Innovation (India)

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EDUCATION	Indian Institute of Technology , Kanpur, India Dual Degree BT-MT Student, <i>Department of Electrical Engineering</i> <i>Master GPA: 10.0/10.0 Bachelor GPA: 8.9/10.0</i> Advisors: <i>Prof. K. S. Venkatesh, IIT Kanpur</i> and <i>Dr. Gabriel Kreiman, Harvard Medical School</i>	Jul '16 - Jul. '21 [master thesis]
WORK EXPERIENCE	Data Scientist , Conversational AI, RingCentral Innovation (India) AI features for RingCentral's video platform and voice-mailbox. Worked majorly on <i>Text Punctuation Restoration</i> , <i>Multilingual Speech Recognition</i> , and <i>Spoken Language Identification</i> . Research Assistant , Kreiman Lab, Harvard Medical School, Boston, USA <i>Computational Modelling of Visual Search and Attention</i> R&D Intern , Dr Hock Beng Lim, Centre for Smart System, SUTD Singapore <i>Using Optical Flow for Localisation of UAVs in Deep Tunnel</i>	Jul '21 - Present May '19 - May '21 [paper] [code] Jun '18 - Jul '18
PUBLICATIONS (PEER-REVIEWED)	<ul style="list-style-type: none">[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", <i>Thirty-Fifth Conference on Neural Information Processing Systems (NeurIPS 2021)</i> [paper] [code][2] Shivi Gupta, Shashi Kant Gupta "Emotion-Color Association in Biologically Inspired Deep Neural Networks", <i>Annual Conference of the Cognitive Science Society 2021 (Abstract)</i> [paper][3] Shashi Kant Gupta "Reinforcement Based Learning on Classification Task Could Yield Better Generalisation and Adversarial Accuracy", <i>Workshop on Shared Visual Representations in Human and Machine Intelligence, NeurIPS 2020</i> [paper][4] Shashi Kant Gupta "A More Biologically Plausible Local Learning Rule for ANNs", <i>Beyond Backpropagation Workshop - Novel Ideas for Training Neural Architectures, NeurIPS 2020</i> [paper]	
OTHER PROJECTS	Deep Embedding Clustering For Speaker Diarization [code] [report] 3D Human Pose Estimation using Multi Camera [code] [report] Design and Development of Humanoid Robot [demo] [report] Real Time Human Facial Emotion Recognition [demo] [code] Relating Artificial Neural Networks with Brain [pres]	March. '21 - May. '21 Feb '20 - Apr. '20 Dec '16 - Apr '19 Nov. '18 – Dec. '18 Sep. '18 – Nov. '18
PROJECTS MENTORED	Do Deep Nets Capture Color Based Emotions? [paper] Comparing DNN Features with Psychological Representations [poster] The Omniglot Challenge [poster]	May '20 - Oct '20 May '20 - Aug '20 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	<ul style="list-style-type: none">• 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, <i>BCS @IITK</i> Talk on Role of Brain Science in AI, <i>BCS @IITK</i> Introduction and Quick Start to ROS, <i>Robotics Club, IITK</i>	[Link] [Dec 12, 2019] [Link] [Oct 25, 2019] [Link] [May 29, 2017]