Shashi Kant Gupta
Data Scientist
Conversational AI, RingCentral Innovation (India)

Google Scholar: 0I5BPCwAAAAJ
Home Page: shashikg.github.io
Email: shashikg.iitk@gmail.com

EDUCATION

Indian Institute of Technology, Kanpur, India — Jul '16 - Jul. '21
Major: *Bachelor's + Master's (Dual Degree) in 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*
Minor Degrees: 1. *Machine Learning and Applications* 2. *Cognitive Science*

WORK EXPERIENCE

Data Scientist, Conversational AI, RingCentral Innovation (India) — Jul '21 - Present
AI features for RingCentral products. Worked majorly on *Text Punctuation Restoration*, *Accented and Multilingual Automatic Speech Recognition*, *Spoken Language Identification*, *Real-time Language Identification*, and *Speaker Identification System.*

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**, Sushant Hiray, Prashant Kukde (2023) "Spoken Language Identification System for English-Mandarin Code-Switching Child-Directed Speech", *Interspeech 2023* [paper] [code]

[2] **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]

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

[4] **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]

[5] **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

BERT Based Model for Punctuation and Capitalization Restoration [code] — March. '22
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 • PyTorch Lightning • Triton Inference Server • Ray/ Ray Serve • gRPC • OpenCV • scikit-learn • NumPy • pandas • Git • Docker • ROS • Arduino

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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)