Karan Taneja

✉ *karantaneja@gatech.edu*
🖿 *krntneja.github.io*

Research Interests: Natural Language Processing, Knowledge-based AI, Machine Learning, Machine Teaching.

Education

- **Georgia Institute of Technology** — Atlanta, US
  Ph.D. in Computer Science, Advisor: Prof. Ashok Goel — *Jan'21 – Present*
- **IIT Bombay** — Mumbai, India
  Dual Degree (BS+MS) in Electrical Engineering, Minor in Computer Science — *Jul'15 – Jun'20*

Publications

- **A Bayesian Deep CNN Framework for Reconstructing k-t-Undersampled Resting-fMRI**
  Karan Taneja, Prachi H. Kulkarni, S. N. Merchant, Suyash P. Awate
  International Conference on Pattern Recognition 2020 (Virtual), 10-15 Jan. 2021, Milan, Italy

- **Improving Low Resource Code-switched ASR using Augmented Code-switched TTS**
  Yash Sharma, Basil Abraham, Karan Taneja, Preethi Jyothi
  Interspeech 2020 (Virtual), 25-29 Oct. 2020, Shanghai, China

- **Exploiting Monolingual Speech Corpora for Code-mixed Speech Recognition**
  Karan Taneja, Satarupa Guha, Preethi Jyothi, Basil Abraham
  Interspeech 2019, 15-19 Sept. 2019, Graz, Austria

Research and Work Experience

- **Graduate Research Assistant** — Atlanta, US
  Georgia Institute of Technology, Advisor: Prof. Ashok Goel — *May'21 – Present*
- **Graduate Research Assistant** — Mumbai, India
  Indian Institute of Technology Bombay, Advisors: Prof. Suyash Awate, Prof. Shabbir Merchant — *Jan'19 – Jun'20*
- **Research Intern and Collaborator** — Hyderabad, India
  Microsoft India Development Center in collaboration with
  Indian Institute of Technology Bombay, Advisor: Prof. Preethi Jyothi — *Oct'18 – Feb'20*
- **Research Intern** — Atsugi, Japan
  Sony Semiconductor Solutions — *May'18 – Jul'18*
- **Undergraduate Research Assistant** — Mumbai, India
  Indian Institute of Technology Bombay, Advisors: Prof. Preethi Jyothi, Prof. Sunita Sarawagi — *Jan'18 – May'18*
- **Software Intern** — Bangalore, India
  Philips Innovation Campus — *May'17 – Jul'17*

Coursework

Machine Learning	Machine Learning, Advanced Machine Learning, Reinforcement Learning, Graphical Models
ML & AI Applications	Natural Language Processing, Knowledge-based AI, Speech Recognition, Computer Vision, Image Processing, Advanced Image Processing, Medical Imaging

Technical Aptitude

Programming	Python, C/C++, Java, MATLAB/Octave, VHDL, Web Dev (HTML5, CSS3, JS)
Packages	PyTorch, TensorFlow, SciPy Stack, OpenCV, OpenGL, Django
Other tools	Bash Script, Vim, Jekyll, LaTeX, Eagle, Ngspice, Quartus, SolidWorks

Awards

- **Undergraduate Research Award (URA03)** — IIT Bombay
  Awarded to recognise exceptional work, in quality and extent, in the Dual Degree Project. — *2020*
- **Institute Academic Prize (IAP)** — IIT Bombay
  Awarded with IAP for ranking 1st among 78 students in EE department for academic year 2018-19. — *2018-2019*