
EDUCATION

Georgia Institute of Technology

Master's in Computer Science

Relevant Coursework: [T+ID Lab](#), Graduate Algorithms, Machine Learning, Big Data

Atlanta, GA

Aug. 2021 – Present

Netaji Subhas Institute of Technology, University of Delhi

Bachelor of Engineering in Information Technology

First Class with Distinction (CGPA: 8.65/10.00)

New Delhi, India

Aug. 2015 – May 2019

EXPERIENCE

Gram Vaani

Research Associate

Gurugram, India

Mar. 2020 – Jul. 2021

- Conducted quantitative and qualitative evaluation of the effect of introducing AI for automating Interactive Voice Response (IVR) based voice applications — published and presented the results in 3 peer-reviewed publications
- Developed automatic content moderation tools for in-house moderators, voice based surveys for user data collection, automatic question-answering system for IVR platforms — deployed in a product used by 800,000 rural households
- Speech2text code helped audit 25,000 migrant workers; enabled 550 stranded workers reach home during lockdown

Product Labs, IIIT Hyderabad

Research Engineer

Hyderabad, India

Jul. 2019 – Feb. 2020

- Developed a deep learning based document question-answering model to extract answers from a group of documents; achieved 3 seconds response time and 90% accuracy over 137 page document — evaluated by Indian Army
- Productized the research — model formed core product for Subtl.ai's first instance shipped to 2,500 users

SELECTED PUBLICATIONS

A. Khullar, et al. 2021. Costs and Benefits of Conducting Voice-based Surveys Versus Keypress-based Surveys on Interactive Voice Response Systems. *ACM COMPASS* [[pdf](#), [talk](#)].

A. Khullar, et al. 2021. Experiences with the Introduction of AI-based Tools for Moderation Automation of Voice-based Participatory Media Forums. *India HCI and KDD Workshop on Data Science for Social Good* [[pdf](#)].

A. Khullar, et al. 2021. Early Results from Automating Voice-based Question-Answering Services Among Low-income Populations in India. *ACM COMPASS* [[pdf](#), [talk](#)].

M. Johri, S. Agarwal, **A. Khullar**, D. Chandra, V. S. Pratap and A. Seth. 2021. The first 100 days: How has COVID-19 affected poor and vulnerable groups in India? *Health Promotion International* [[pdf](#), [talk](#), [policy brief](#)].

A. Khullar* and U. Arora*. 2020. MAST: Multimodal abstractive summarization with trimodal hierarchical attention. *EMNLP Workshop on NLP Beyond Text* [[pdf](#)] (*=equal contribution).

ACADEMIC SERVICE & AWARDS

- **Runners-up in AllenNLP Hacks 2021**: Built BERT classifier to identify communities subjected to hate speech
- **Program Committee**: NLPBT — EMNLP 2020, The Web Conference 2021; Shadow PC — ACM COMPASS 2021
- **Gram Vaani Star Performer**: Received the Star Performer award for two consecutive quarters 2020-21
- **Google Research India AI Summer School**: Among 150 candidates selected in India for AI summer school 2020
- **Harvard College Project for Asian and International Relations**: Among 300 delegates selected for HPAIR 2019
- **India's Brightest 33 Engineers**: Among the cohort of 33 students selected by the Economic Times in 2018 [[talk](#)]

PROJECTS & LEADERSHIP

- **Autonomous Mars Rover**: Co-founder and team lead of ARES, NSIT's first Mars rover team for University Rover Challenge — among top 71 and 30 teams in University and European Rover Challenges respectively
- **MultiModal BiDirectional Attention Flow model**: Augmented a machine comprehension model (BiDAF) to be used for multimodal summarization and presented it for my Bachelor's thesis — awarded 3rd highest grade in batch

SKILLS

- **Languages and Frameworks**: Python, C/C++, PyTorch, TensorFlow, Git, MySQL, Django