
EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master's in Computer Science

Aug. 2021 – Present

Relevant Coursework: T+ID Lab, Graduate Algorithms, Machine Learning, Big Data

Netaji Subhas Institute of Technology, University of Delhi

New Delhi, India

Bachelor of Engineering in Information Technology

Aug. 2015 – May 2019

First Class with Distinction (CGPA: 8.65/10.00)

EXPERIENCE

Gram Vaani

Gurugram, India

Research Associate

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

Hyderabad, India

Research Engineer

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*.

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*.

A. Khullar, et al. 2021. Early Results from Automating Voice-based Question-Answering Services Among Low-income Populations in India. *ACM COMPASS*.

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* (talk, policy brief).

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

ACADEMIC SERVICE & AWARDS

- **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
- **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, Git, MySQL, Django