

# Aman Khullar

<https://amankhullar.github.io>

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## EDUCATION

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### 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

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### Gram Vaani

Research Associate

Gurugram, India

*Mar 2020 – Present*

- Building automatic content moderation tools for in-house moderators, voice based surveys for user data collection and automatic question-answering system for IVR platforms — deploying in a product used by 800,000 rural households
- Conducting research on design of AI tools (in a social context) through user interviews and making continuous algorithm and design improvements — sought 350 responses on voice survey and interviewed 5 senior moderators — found correlation between question looping and user dropouts; deployed location entity recognition for moderation
- 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

### Laboratory for Computational Social Systems, IIIT Delhi

Research Intern

New Delhi, India

*Dec 2018 – Jan 2019*

- Implemented baseline papers (pointer-generator and MSMO) for extractive text and multimodal summarization
- Work formed the foundation of Bachelor's thesis which explored the use of visual and audio cues to supplement text

## PUBLICATIONS

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Mira Johri, Sumeet Agarwal, **Aman Khullar**, Dinesh Chandra, Vijay Sai Pratap and Aaditeshwar Seth. 2020. The first 100 days: How has COVID-19 affected poor and vulnerable groups in India? (Under review — talk presented at Canadian Conference on Global Health 2020 and drafted a Policy Brief, [link for policy brief](#)).

**Aman Khullar\*** and Udit Arora\*. 2020. MAST: Multimodal abstractive summarization with trimodal hierarchical attention. In Proceedings of EMNLP's NLP Beyond Text Workshop (\*=equal contribution, [link](#)).

Abhishek Arora\*, **Aman Khullar\***, Sarath Chandra Pakala\*, Vishnu Ramesh\* and Manish Shrivastava. 2020. Subtl.ai at the FinSBD-2 task: Document Structure Identification by Paying Attention. In Proceedings of IJCAI-PRICAI's Financial Technology and Natural Language Processing Workshop (\*=equal contribution, [link](#)).

## ACADEMIC SERVICE & AWARDS

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- **Program Committee:** EMNLP Workshop on NLP Beyond Text, 2020
- **Google Research India AI Summer School:** Among 150 candidates selected in India for AI summer school 2020
- **India's Brightest 33 Engineers:** Among the cohort of 33 students recognized as the brightest engineers in India by the Economic Times in 2018 (experience talk)

## PROJECTS & LEADERSHIP

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- **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
- **Interaction of Game Theory and Machine Learning in a connected World:** Presented a survey report highlighting intersection of these fields in electronic market design and selfish routing — awarded highest grade in batch

## SKILLS

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