

# AMAN KHULLAR

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## Education

### Netaji Subhas Institute of Technology (NSIT)

Aug, 2015- May, 2019

University of Delhi

Bachelor of Engineering in Information Technology

First Class Honors with Distinction; CGPA: 8.65

- Bachelor's Thesis: "Multimodal Summarization and Beyond"
- Relevant Coursework: Neural Networks, Theory of Computation, Design and Analysis of Algorithms, Operating Systems, Software Engineering, NLP Project, Information Theory, Databases and Computer Graphics.

## Experience

### Research Engineer, Product Labs, IIIT Hyderabad

Jul, 2019 - Present

- Developing a deep learning based document question answering algorithm which can extract answer from a large number of documents to assist users with their natural language queries and avoid their manual effort of scanning hundreds of pages.
- Productionizing the research to provide an end-to-end product to the clients.

### Student Researcher, NSIT

Dec, 2017 - May, 2019

- Worked under guidance of Dr. Deepika Kukreja on a variety of projects encompassing Natural Language Processing and Algorithmic Game Theory.
- Developed MultiModal BiDirectional Attention Flow model (MMBiDAF), a novel multimodal attention based model for solving the task of multimodal summarization for my Bachelor's Thesis and awarded 3rd highest grade for my work.
- Worked in the field of machine comprehension to complete a project, Allow Me To Answer : Machine Comprehension with Bidirectional Attention Flow, using Tensorflow and improved the baseline model for the task on SQuAD Dataset
- Worked in the field of algorithmic game theory to complete a project, Interaction of Game Theory and Machine Learning in a connected World, highlighting intersection of algorithmic game theory and machine learning. Awarded highest grade for work.

### Research Intern, IIIT Delhi

Dec 2018 - Jan 2019

- Worked under guidance of Dr. Tanmoy Chakraborty and implemented baseline papers in the field of multimodal summarization and extractive text summarization to calculate the Rouge scores on our own Coursera dataset.

### Software Development Intern, Royal Bank of Scotland

June, 2018 - July, 2018

- Part of the Digital and Engineering Services (DES) Tools team at RBS and received the R&R (Reward and Recognition) award to be among the best interns.
- Handled the analysis of alternative communication tool for RBS - HipChat Data Center and Lync add-on using AGILE development methodology and coordinated with RBS teams across India and U.K.

## Leadership

### Team Lead, Autonomous Mars Rover Team, NSIT

Oct 2017 - Jan 2018

- Team Lead of Team A.R.E.S., our first team for the University Rover Challenge. Our 26 member team together built the autonomous Mars Rover and were the only college in North India to reach the top 71 teams in world. Following year we qualified among top 30 teams to compete in Poland for the European Rover Challenge.
- Made the rover autonomous using the Simultaneous Localization And Mapping algorithm and used OpenCV library for ball detection (path markers for task). Finally, simulated the environment using Gazebo and Rviz in the Robot Operating System.

### President, Nakshatra, NSIT

Aug, 2017 - May, 2018

- Converted Nakshatra, the Maths and Astronomy Society, to an open society with the motivation of collective learning. Our team introduced the space competitions - University Rover Challenge and Cansat in college which allowed students to explore opportunities of engineering in astronomy.

### Global Food Ambassador, Thought For Food

Dec, 2017 - Dec, 2018

- Selected among the 278 ambassadors worldwide to work in the field of AgriTech. Worked with next generation of food entrepreneurs to find innovative solutions to the problem of feeding 9 billion people by 2050.

## Awards & Honors and Skills

- Titled as India's 33 Brightest Engineers by *Economic Times* in the ET Campus Stars class of 2017-18. In the 4th round of the competition, I was interviewed and selected by Mr. Gautum Sinha, CEO at Times Internet Limited.
- Skills : Python, C++, NLP, PyTorch, TensorFlow, Django, SQL, Javascript, HTML, CSS and Public Speaking.