AMAN KHULLAR

• amankhullar.github.io • aman.khullar@iiit.ac.in • github.com/amankhullar • linkedin.com/amankhullar

Education

Netaji Subhas Institute of Technology (NSIT)   *Aug, 2015- May, 2019*
University of Delhi
Bachelor of Engineering in Information Technology
First Class 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 answers from a large number of documents to assist users with their natural language queries and avoid their manual effort of scanning hundreds of pages.
- Productizing the research to develop an end-to-end product.

Student Researcher, NSIT   *Dec, 2017 - May, 2019*
- Worked under the guidance of Dr. Deepika Kukreja on a variety of projects encompassing NLP 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 was awarded 3rd highest grade (among 100 students) for my work.
- Worked in the field of machine comprehension on a project, Allow Me To Answer : Machine Comprehension with Bidirectional Attention Flow, and improved the baseline model for question-answering task on SQuAD Dataset.
- Worked in the field of algorithmic game theory on a project, Interaction of Game Theory and Machine Learning in a connected World, highlighting the intersection of algorithmic game theory and machine learning. Awarded highest grade for my work.

Research Intern, IIIT Delhi   *Dec 2018 - Jan 2019*
- Worked under the guidance of Dr. Tanmoy Chakraborty and implemented baseline papers in the field of multimodal summarization and extractive text summarization on our own Coursera dataset and evaluated them using Rouge scores.

Software Development Intern, Royal Bank of Scotland   *June, 2018 - July, 2018*
- Part of the Digital and Engineering Services (DES) Tools team at RBS. Received the R&R (Reward and Recognition) award for being 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. (Autonomous Rover with Embedded System), our first team for the University Rover Challenge. Under the guidance of Prof. Bhatia, the 26 member team A.R.E.S. was the only team in North India to reach top 71 teams in the world. In the following year we qualified among the top 30 teams worldwide for the European Rover Challenge.
- Made the rover autonomous using the Simultaneous Localization And Mapping algorithm. Finally, simulated the environment using Gazebo and Rviz in the Robot Operating System.

President, Nakshatra, NSIT   *Aug, 2017 - May, 2018*
- Converted Nakshatra, the Math 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 278 ambassadors worldwide to work in the field of AgriTech. Worked with the next generation of food entrepreneurs to find innovative solutions for 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.