

AMAN KHULLAR

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Education

Netaji Subhas Institute of Technology

University of Delhi, Dwarka, Delhi

August, 2015 - May, 2019 (Expected)

B.E. (H), Information Technology, CGPA - 8.53

Birla Vidya Niketan

C.B.S.E, New Delhi, Delhi

April, 2001- May, 2015

Class XII, 95.0%, Class X, 95.0%

Internship Experience and Research Projects

Royal Bank of Scotland | Software Development Intern

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 and analyzed the introduction of Statuspage for the DES Tools.
- Developed the product using AGILE development methodology and coordinated with RBS teams across India and U.K.

Autonomous Mars Rover for the University Rover Challenge

October, 2017 - March, 2018

- Completed the project using the Simultaneous Localization And Mapping algorithm and OpenCV library for ball detection. Simulated the environment using Gazebo and Rviz in the Robot Operating System.

Delhi Metro Passenger Distribution Project

July, 2017 - Present

- Analyzed the passenger distribution in Delhi Metro under Prof. Sayan Ranu, IIT Delhi.
- Modeled the distribution of passengers and their flow in a mathematical model and working to build an application to aid the decongestion in trains by uniform distribution of passengers in trains.

Interaction of Game Theory and Machine Learning in a connected World

December 2017 - January, 2018

- Completed the project under guidance of Dr. Deepika Kukreja, highlighting the interface of algorithmic game theory and machine learning and implementation of the Pegasos algorithm for SVM classifier.

Schrijver's algorithm for optimal multi-label single clique MRF-MAP inference

June - July, 2017

- Implemented techniques for polynomial time submodular function minimization under Dr. Chetan Arora, IIIT - Delhi.

HelpCamp - A student mentorship website

January, 2018 - March, 2018

- Developed a college mentorship website, 'HelpCamp' to help students get information of college centric opportunities and hence allow them to explore and pursue their interests.

Skills

- C++, C, Python, Machine Learning, Natural Language Processing, Node.js, Javascript, MongoDB, SQL, Octave, Robot Operating System, HTML, CSS & Public Speaking.

Leadership

- **Team Lead** of A.R.E.S. , our first team to the University Rover Challenge 2018 and were placed in the top 71 teams in the world. Our 26 member team together built an autonomous Mars Rover and were the only college in North India to reach the top 71 teams in the world.
- **President** of Nakshatra, the Maths and Astronomy Society of NSIT. Converted it to an open society with the motivation of collective learning and currently we are team of 19 students. Our team introduced the space competitions - University Rover Challenge and Cansat in college which allow the students to explore opportunities of engineering in astronomy.
- **Global Food Ambassador**, 2017-2018 for the **Thought For Food** global organization. Selected among the 278 ambassadors worldwide. Conducted awareness workshops in college and mentored a high rank team for the challenge.
- Organized a Spot Fix event in the nearest Metro Station to the College, as a social initiative to clean the vicinity of the Dwarka Mor metro station and the walls of the metro station.

Academic and Online Courses

- Theory of computation, Design and Analysis of Algorithms, Operating Systems & Databases.
- Introduction to Probability and Statistics by John Tsitsiklis and Introduction to Game Theory.

Awards and Honors

- Selected for '**India's 33 Brightest Engineers**' by **Economic Times** in the ET Campus Stars class of 2017-18. In the 4th round I was interviewed and selected by the CEO of Times Internet Limited.
- Secured the third position in inter-hostel marathon, among 200 participating students in 2015.
- Titled as Mr. BVN in my Farewell ceremony in 2015, recognizing the overall excellence.
- Felicitated with Ideal Student award for four consecutive years, 2010-2013 in Birla Vidya Niketan.