# Varnit Jain

[varnitjain.in](varnitjain.in)          [varnit15112@iiitd.ac.in](mailto:varnit15112@iiitd.ac.in)          +91-9560840462

## EDUCATION

- **Indraprastha Institute of Information Technology (IIITD),  Delhi**                    GPA: 8.41/10
  *Bachelor of Technology, Computer Science, August 2015 - Present*
- **Delhi Public School, Rohini, New Delhi**                    Percentage: 97.2%
  *Senior Secondary Education, March 2015*
- **Delhi Public School, Rohini, New Delhi**                    GPA: 9.6/10
  *Secondary Education, March 2013*

## SKILLS

- **Programming Languages**: Python, C++, C, C#, Java, SQL, MongoDb, HTML, CSS, Flask, Javascript
- **Platforms and Technologies**: Unity, Android SDK, Onshape, Firebase, Photoshop, Illustrator
- **Technical Electives**: Wearables, Designing Human Centered Systems, Statistical Machine Learning, Privacy and Security in Online Social Media, Embedded Logic Design, Theory of Computation, Graph Theory, Competitive Programming, Discrete Mathematics, Computer Networks, Introduction to Media Computing, Valuation and Portfolio Management
- **Interest Areas**: Human Computer Interaction, Data Science

## PROJECTS

- **Lego Based Props for Virtual Reality**                    *June 2017 - September 2018*
  In a team of 5, we worked created toolkit which allows VR developers to build a physical-manipulation enabled controller of any shape or size for VR. We developed customized blocks with features of rotation, translation, stretch, etc. compatible with Lego blocks. This work is under review at ACM CHI Conference on Human Factors in Computing Systems 2019.
- **MultiModal Fake News Detection**                    *January 2018 - November 2018*
  In a team of 3, we are working on Fake News detection using multiple modalities such as text, images, video, etc. This model is designed to work using only content which makes it applicable to all online social networks and instant messaging applications. This work is under review at the 2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics.
- **Jamoora**                    *September 2018*
  In a team of 2, we built a robot which could be controlled using music and speech. The actions performed by the robot were determined by the story (speech) and the way the action was performed was determined using music (to portray the mood). The work was presented at 31st ACM User Interface Software and Technology Symposium (UIST) held in Berlin, Germany and has been covered in many media outlets like The Indian Express.
- **MayMayMe**                    *January 2017 - Present*
  In a team of 4, we are developing a platform which lets users create, share, and see memes. We are interested in many studies to be conducted on the platform like network structure based on meme trends, popularity analysis of memes, etc. We are launching the platform in January 2019.
- **Delhi Traffic Optimization**                    *December 2017 - Present*
  In a team of 3, we're working on a project in collaboration with the Delhi Traffic Police which aims to automate congestion detection and to help the local traffic cop with efficient traffic management by providing a real-time traffic analysis.
- **AutoVend**                    *September 2017 - December 2017*
  In a team of 3, built a vending machine using RF tags and image analysis wherein the object taken is detected and billed automatically, making the user experience better. Responsible for building the user app, a server connecting the app to online database, and object detection using 5MPx cameras.
- **Intern, Ernst and Young, Gurgaon**                    *May 2017 - June 2017*
  Robotic Process Automation**:** In a team of 2, created and deployed a prototype Chat Bot which was used to measure employee satisfaction (in an office of about 1000 employees); built Alexa skills using AWS Lambda to trigger financial automation processes; and performed market research to identify players in the industry who proliferate technology.
  Risk Advisory**:** Supported data analytic using SQL as part of revenue assurance project for leading coaching institute in India.
- **Braille Printer**                    *January 2016 - April 2016*

Created a prototype of a Braille printer in a team of 4; the printer could print (in braille) any text it received via bluetooth. We made a 3 axis CNC using old CD drives. It's total cost was only Rs. 300 (<$5). We received the best project award out of 48 teams and were selected for showcase in Delhi Mini Maker Faire '16.

## POSITION OF RESPONSIBILITY

- **Teaching Assistant, IIITD, Delhi**
  Responsible for conducting tutorials and lab exercises for batches of 20-30 students for the following courses: (1) Introduction to programming, (2) Java Module, and (3) Data Structures and Algorithms.
- **Mentor, Student Mentorship Program, IIITD** *August 2017 - Present*
  Responsible for onboarding and ensuring a smooth transition for eight first-year students concerning studies, workload, cultural ecosystem and exposure. I help them overcome a diverse set of issues by assisting them to set targets, celebrate small wins and lean in to maximize their potential
- **Administrator, Ink (Design Club), IIITD** *August 2017 - September 2018*
  Responsible for managing various affairs of the club and conducting intra and inter-university events; design head for college magazine, Kaleidoscope. Member since March '16.

## EXPERIENCE

- **Nishulk Shiksha Kendra, New Delhi** *Since May 2014*
  Teach underprivileged kids in a free tuition center on weekends during summer break. I teach Science, Mathematics, Computers, English (depending on need and availability of volunteers) to students of classes 5-10.
- **Exchange student, International Exchange Program, La Tour-du-Pin, France** *October 2013*
  Attended Lycée Elie Cartan (school) for two weeks where I studied various subjects and gained an insight into the french culture.
- **Participant, NASA, Houston, Texas** *June 2011*
  Visited the Johnson Space Centre, NASA's Neutral Buoyancy Lab (won competition for fastest project assembly) , and Kennedy Space Center for educational tours.; participated in educational activities like making a prototype of a mars rover using servo motors, a prototype landing gear for safe landing an egg, etc.