

TUSHAR KATARIA

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DOB: September 07, 1997

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Education

Indraprastha Institute of Information Technology, Delhi B.Tech(CSE) 2015 – Present	CGPA: 9.29 (current)
Jaspal Kaur Public School, Delhi CBSE 2013 – 2015	Percentage: 96.4
Jaspal Kaur Public School, Delhi CBSE 2003 – 2013	CGPA: 10

Skills

Expertise Area	Machine Learning, Social Media Analysis, Android Development, Data Science
Programming Language	Java, C++/C, Python, R
Tools and Technologies	Keras, SciPy, Numpy, Latex, Hadoop, Android SDK, Linux, Git, SQL, AWS
Technical Electives	Artificial Intelligence, Statistical Machine Learning, Computer Networks, Mobile Computing

Internship

TCS Innovation Lab, Delhi (Research) Supervisor: Dr. Arnab Chatterjee Studied the dynamics and network structure of the Reddit social media network by using data collected over one year. Analysis was done on distributed technologies such as Hadoop. My work mostly involved writing distributed algorithms in Hadoop to reduce the analysis run time (from days to a few hours) and statistical analysis of results in R. The work was accepted as full paper in IEEE/ACM International Conference on Social Networks Analysis and Mining (ASONAM 2018) in the industrial track.	(May, 18 - July, 18)
Teaching Assistant - Introduction To Engineering Design Guide: Dr. Aman Parnami Introduction to Engineering Design is a multidisciplinary course offered with an aim to ignite the young minds with concepts in design and innovation. The course involved teaching students the techniques to deal with engineering design problems in real life.	(Jan, 18 – Apr, 18)
Teaching Assistant - Systems Management Guide: Dr. Sambuddho Chakravarty	(Aug, 17 – Dec, 17)

This course exposes the students how they can manage their own systems. Starting with an OS installation, dual-OS installation, to knowing Linux commands, writing shell scripts, using tools such as sed and awk, connecting the machine to the network, understanding networking, setting up a website, use of Internet tools, cloud based systems.

Projects

Sentiment Analysis of News for enhancing trading strategies (Dec,17 – Present)

Guide: Dr Tanmoy Chakraborty

Team Size-2

This is my Bachelor Thesis/Project aiming to extract meaningful signals from news sites(Reuters/Bloomberg) to derive a trading strategy for Indian Markets using Deep NLP.

Atari From Pixels:Deep Reinforcement Learning

(Aug,17 – Dec,17)

Guide: Dr Mayank Vatsa

Team Size-2

Implemented a deep reinforcement learning based agent, inspired from Google Deepmind, to play Atari games on open AI gym using on game screens. Trained the agent to achieve superhuman performance on Breakout and pong. The bot was trained on an AWS GPU cluster.

Adversarial Learning on Medical Image Dataset

(Jan,18 – May,18)

Guide: Dr. Richa Singh

Team Size-2

We created adversarial attacks for deep learning architectures on medical databases. Although creation, detection and mitigation of such attacks is a popular research problem, but addressing this with respect to medical data has never been done.

Peek

(Jan,18 – May,18)

Guide: Dr. Pushpendra Singh

Team Size-5

We designed a dynamic mobile application for the university campus to detect location of a user using and provide relevant services to the user based upon his current location. The project is currently in testing phase and a beta version will be released in Aug,18.

Positions of Responsibility

- Member, Laboratory for Computation Social Systems (Dec,17 – Present)
- CSE Head, Esya'17 (Managed 10 CSE Events, Team of 200+ students) 2017
- Organizer of HackIIITD, IIITD's Annual Hackathon 2016

Awards and Achievements

- Selected For IIIT-Delhi Dean's List for exceptional academic performance for the year 2015-2016.
- Secured the first rank in school(science stream) for the CBSE AISSCE exams.

Interests and Hobbies

- I try to read a book in 30 days.
- I play Basketball.
- I try to learn a new thing each day.

Declaration: The above information is correct to the best of my knowledge.

Tushar Kataria

Date: July 03, 2018