

# Mridul Gupta

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## EDUCATION

### INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY

B.Tech in Computer Science and Engineering

Grad. Aug 2019 | New Delhi, India

Cum. GPA: 7.23/10.0

### DELHI PRIVATE SCHOOL

All India Senior School Certificate Examination

Grad. May 2014 | Dubai, UAE

Percentage: 87.6

### DELHI PRIVATE SCHOOL

All India Secondary School Examination

Grad. May 2012 | Dubai, UAE

GPA: 9.4/10.0

## LINKS

Github:// mridulg

LinkedIn:// mr1dul6

Codechef:// iammrldul

Codeforces:// mridul

Medium:// iammrldul

## TECHNICAL SKILLS

### LANGUAGES

Java • MATLAB • Python • Perl

LaTeX • SQL • C • C++

### TECHNOLOGIES

Core Java • Spring Boot • Log4j2

Web Services (SOAP and RESTful)

MongoDB • Avro • Kafka • RabbitMQ

### FRAMEWORKS

Spring Boot • Spark

Django • Flask • Web2Py

### TOOLS

Maven 3.0 • JUnit • Postman

Sonar • Jenkins • OpenAPI 3.0

JaCoCo • Swagger 2.0

ElasticSearch • Logstash • Kibana

Git • Bash • Sourcetree

Jupyter Notebook • OpenCV

## EXPERIENCE (FULL TIME)

### AIRTEL X LABS | Software Development Engineer

June 2019 – present | Gurugram, India

- Worked on delivering **two** major projects from scratch for the Digital Enterprise Division.
  - Contributed in developing **Airtel IQ**, a **cloud-based** omni-channel communication platform with robust set of APIs on top of Airtel's core assets.
    - \* Enabling developers to easily embed communication services such as voice, SMS, and location in their applications.
  - Developed an intelligent layer between the front-end and Airtel's Mobility Stack to orchestrate bundle orders with rules around eligibility, discounts and billing.
    - \* Platform aimed to improve the value proposition of B2B customers with bundles and Third-Party standalone propositions.
    - \* Integrating high value propositions like Airtel BlueJeans, G Suite, ACS for Enterprise customers.
- Complete ownership of four vital services + partial ownership of three services across projects.
- Collaborated with several teams within and beyond Airtel to fulfil third party integrations.

### THE MATHWORKS INC. | Intern

May 2018 – July 2018 | Bengaluru, India

- Part of the Engineering Development Group at MathWorks.
- Wrote a **Perl** tool enabling cross-platform automated test qualification.

## EXPERIENCE (PART TIME)

### IIIT DELHI | Teaching Assistant

Aug 2018 – Dec 2018 | New Delhi, India

- Teaching Introductory Programming for two foreign students with language barriers.

### THE MATHWORKS INC. | Intern

May 2018 – July 2018 | Bengaluru, India

- Part of the Engineering Development Group at MathWorks.
- Wrote a **Perl** tool to allow cross-platform automated test prequalification.

### IIIT DELHI | Teaching Assistant

Aug 2017 – Dec 2017 | New Delhi, India

- Responsible for conducting Linear Algebra tutorials for ~50 students.
- Also created problem statements and conducted regular evaluations.

### THE 65TH SQUARE, IIIT DELHI | Organizing Head

July 2015 – present | New Delhi, India

- Organized the college's annual Chess Tournament three years in a row.
- Participation - 500+ school/college students and 50+ FIDE Rated players.
- Organized 50+ chess tutorials and practice matches for 75+ students.

## COURSEWORK

### UNDERGRADUATE

Big Data Analytics  
Semantic Web  
Data Warehousing  
Machine Learning  
Multimedia Computing  
Digital Image Processing  
Information Retrieval  
Computer Security  
Algorithm Design + Practicum  
Operating Systems  
Competitive Programming  
System + Network Administration  
Database Systems Management

## RESEARCH & PROJECTS

### EVERYBODY DANCE NOW

Aug 2018 - Dec 2018 | New Delhi, India

Research course project with **Dr. Saket Anand**. Team Size: 2

- Implemented "do as I do" Motion Transfer using Generative Adversarial Networks
- Work involved video-to-video translation using pose as an intermediate representation.

### TRIMMING THE FAT

Jan 2018 - Apr 2018 | New Delhi, India

Research course project with **Dr. Rajiv Ratn Shah**. Team Size: 2

- Deep Learning Based in Videos
- Wrote a software to analyze a video file or feed and allow the user to search for objects in it.
- Also extended to recognize object color and specific people in the video.
- Application uses the YOLO model trained with the MS-COCO dataset to detect various objects in the image.

### ANALYSIS OF FRAUDULENT ENTITIES IN BITCOIN

Jan 2018 - Apr 2018 | New Delhi, India

Research course project with **Dr. Tanmoy Chakraborty**. Team Size: 3

- Conducted an egocentric analysis from the Bitcoin transaction dump to understand the composition of network ties.
- Able to cluster fraudulent transactions from genuine ones.

### CLONING MACHINE INTELLIGENCE [*B.TECH THESIS*]

June 2017 - Dec 2017 | New Delhi, India

B.Tech Thesis under the guidance of **Dr. Debarka Sengupta**.

- Dedicated to the exploration of intelligence hacking in machine learning models.
- Building data-less models based on classification boundary estimation.
- Manuscript submitted to **IEEE Access** for publication.

### INFORMATION-FUSION OF LOCATION BASED SERVICES

May 2017 - Dec 2017 | New Delhi, India

Independent Research project with **Dr. Ponnurangam Kumaraguru** and **Dr. Ankita Likhyan**, IBM Research.

Orchestrated a long-term crawl on location-based online social networks (Foursquare, Uber, Yelp, Twitter) to generate user knowledge graphs.

## AWARDS

2020	Airtel X Labs, Gurugram	Best Rookie Award, Digital Enterprise Division
2020	Airtel X Labs, Gurugram	Best Team Award, Digital Enterprise Division
2019	Airtel X Labs, Gurugram	Best Rookie Award, Digital Enterprise Division
2017	IIIT, Delhi	Winner, Technical Quiz @ Research Showcase
2017	Facebook DevC, Delhi	7th Place, Capture-the-Flag Contest
2014	DPS, Dubai	Ignited Mind and Overall Proficiency Award
2013	United Arab Emirates	Winner, S P Jain Brain Triathlon UAE

## SOCIETIES

2016 - 2019	@IIIT Delhi Open Source Channel, Github	Developer
2016 - 2017	The Lunchbox Philosophers, IIIT Delhi	Coordinator
2015 - 2019	The 65th Square, Chess Club, IIIT Delhi	Coordinator
2012 - 2015	The World Scholar's Cup	Member