

# SHREY GUPTA

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DOB: June 25<sup>th</sup> 1992

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## Education

### Indraprastha Institute of Information Technology

Masters in Technology, Computational Biology  
2015 – Present

CGPA: 7.58  
(till 3<sup>rd</sup> Semester)

### GGSIU University

Bachelors in Technology, Computer Science  
2011 – 2015

CPI – 78.47

### Mount Carmel School, New Delhi

12<sup>th</sup> Board  
2010

Percentage: 89

### Mount Carmel School, New Delhi

10<sup>th</sup> Board  
2008

Percentage: 89.4

## Skills

**Expertise Area** Rare diseases, Causality, Data Mining

**Programming Language** C, C++, Python, Java, R, HTML, Bootstrap/CSS, Matlab, SQL/PISQL, JS, Shell Scripting

**Tools and Technologies** Jupyter, Eclipse, PyCharm, MySQL Workbench, Django, Matlab, R-Studio, Spark, Hadoop

**Technical Electives** Big Data Analytics, Data Mining, Graduate Algorithms, OOPD, Statistical Computation(ongoing).

## Experience

- **Institute of Genomics and Intergrative Biology(CSIR)** May 2016 – present  
Advisor: Dr. Vinod Scaria  
Thesis title: An application to detect rare diseases for the given symptoms
  - Prediction of symptoms from clinical reports dataset present on OMIM using semantic parsing.
  - Development of an interface where clinicians can enter some symptoms and the tool would predict the best matches for the rare diseases corresponding to it.

- **Indian Institute of Technology Madras** May – July 2014.  
 Advisor: Dr. Rupesh Nasre  
 Project title: Keyword Search in Relational Database
  - Analysis of paper titled Banks which aimed at creating a Browsing and Keyword Search application.
  - Development of a novel algorithm for Keyword Search in Relational Database
  
- **Futor** July – August 2013  
 Advisor: Saurabh Goel  
 Project title: Database Synchronisation
  - Development of a webpage for the organization.
  - Development of an algorithm to implement Database Synchronization.
  - Worked on Stored Procs in PISql.

## Projects

- Simulating Newtonian equations for a multi-particle system –*August-Nov 2016*
- Web portal for ACMG Secondary findings –*August 2016 – January 2017*
- Causal Inference of Datasets – *May - August 2016*
- Reference-Free SNP Detection – *March - April 2016*
- N-Grams implementation in Spark – *March - April 2016*
- Webpage to calculate the output of a combinational circuit – *Dec 2015.*
- Implementation of UPGMA method – *Nov 2015.*
- Document Classifier using NLTK(python) – *Jan – March 2015.*
- Text Summarizer using NLTK(python) – *Jan – March 2015.*

## Positions of Responsibility

- |  |                          |
|--|--------------------------|
| • TA, Systems Management Course            | August'15 – Novemembr'15 |
| • TA, Computer Networks Course             | January'16 – April'16    |
| • TA, Computer Organization Course         | May'16 – July'16         |
| • TA, Data Structures and Algorithm        | August'16                |
| • TA, Introduction to Quantitative Biology | January'17 - present     |

## Interests and Hobbies

- Soccer: Was the vice-captain of the undergrad soccer team.
- Writing: Was in the editorial club.
- Dance: Participated in school events.
- Art and Craft: Was in the Art club at school.

Declaration: The above information is correct to the best of my knowledge.  
 Shrey Gupta  
 Date: Feburary 10<sup>th</sup> , 2017