

## Education

### Master of Science (M.Sc.) in Computing Science

Simon Fraser University, Burnaby, British Columbia, Canada

Sep 2017 – Present

- Professional Masters Program in Big Data
- Fall 2017 Courses: Machine Learning, Natural Language Processing, Programming for Big Data

### Bachelor of Technology (B.Tech.) in Computer Science and Engineering

IIIT Delhi, New Delhi, Delhi, India

Aug 2013 – May 2017

## Skills

### Big Data Libraries + Tools

- NLTK, TweetNLP, gensim
- Scikit-learn, imbalanced-learn
- MapReduce, Apache Spark
- chart.js, plot.ly, CartoDB

### Languages + Databases

- Python, Java, C++/C, R
- MongoDB, MySQL

### Technologies + Platforms

- Hadoop, HDFS
- Git, SVN
- Android SDK
- Amazon Web Services

## Publications

### From Camera to Deathbed: Understanding Dangerous Selfies on Social Media

Accepted as Poster at the 11th  
International Conference on Web and  
Social Media (ICWSM), 2017

## Awards + Achievements

Founding Member, *DARKCODE*  
(Ranked in the top 100 Academic  
InfoSec Teams Worldwide)

Finalist, Microsoft *Build The Shield*

India Finalist, *CSAW CTF '16*  
Hosted by NYU Tandon School of Eng.

## Interests

Machine Learning, Artificial  
Intelligence, Recommender Systems

## Data Science Experience

### Data Science Researcher

Precog Research Group, IIIT Delhi, India

May 2016 - May 2017

- Formulated the principal social computing study for development of full-fledged mitigation systems for Killfies (deaths caused by selfies)

## Technical Projects

### Me, Myself and My Killfie: Characterising and Preventing Selfie Deaths

Undergraduate Thesis, IIIT Delhi

[[labs.precog.iitd.edu.in/killfie](http://labs.precog.iitd.edu.in/killfie)]

Aug 2016 - May 2017

- Performed a comprehensive analysis of Killfies and inferred various reasons behind these deaths. Utilized inferences from Killfies to extract location, image and text-based features to engineer an elaborate system which gives an accuracy of 82%.
- Featured in global media: 160+ news articles, 1000+ Tweets and 13 Interviews

Featured in Media including



**Mashable**

### Towards a Dynamic Top-N Recommendation Framework

Collaborative Filtering Course Project, IIIT Delhi

Aug 2016 – Nov 2016

- Implemented RecSys'14 paper '[Towards a Dynamic Top-N Recommendation Framework](#)' for MovieLens-100K dataset. Conceived Topic Boosted Matrix Factorisation with 100 topics to get average  $nDCG@4$  of 0.82 and average  $MAP@4$  of 1.00 for 5-fold cross validation

### Scrabby: State-of-the-Art Scrabble Playing Program

Artificial Intelligence Course Project, IIIT Delhi

[[github.com/gurshabad/scrabby](https://github.com/gurshabad/scrabby)]

Aug 2015 – Nov 2015

- Utilised Backtracking algorithm devised in '[The World's Fastest Scrabble Program](#)' paper to generate playable words for a game state. Implemented Bot Styles: Random, Greedy, 3 level look-ahead with MC Simulations)