

# Anushtha Kalia

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## EDUCATION

### UNIVERSITY OF DELHI

B.TECH IN INFORMATION  
TECHNOLOGY AND  
MATHEMATICS

Expected June 2019 | New Delhi  
Cluster Innovation Centre  
Top 1% (All Semesters)  
Percentage: 88.6%

### AIR FORCE BAL BHARATI SCHOOL

Grad. March 2015 | New Delhi

## LINKS

Github:// [anushthakalia](#)  
LinkedIn:// [anushthakalia](#)

## COURSEWORK

### COMPUTER SCIENCE

Algorithms and Data Structures  
Database Management Systems  
Operating system  
Networking  
Computer System Architecture  
Artificial Intelligence

### MATHEMATICS

Calculus  
Linear Algebra  
Differential Equations  
Probability and Statistics  
Numerical Methods  
Linear Programming

## SKILLS

### PROGRAMMING

Over 5000 lines:  
Python • C++ • MATLAB • Pandas  
Numpy • Keras  
Over 1000 lines:  
Shell •  $\text{\LaTeX}$  • CSS • PHP  
Familiar:  
Java • R • MySQL

## EXPERIENCE

### PITNEY BOWES | DEEP LEARNING INTERN

June 2018 – July 2018 | Noida

- Worked on extracting building footprints from satellite imagery data.
- Worked on porting code to MXNet from Caffe.

### STANFORD SCHOOL OF MEDICINE | DEEP LEARNING INTERN

Jan 2018 – Present | Remote

- Working on early detection of Parkinson's disease through sustained phonation.
- Entails research on novel representations to represent audio data in order to feed to a Deep Learning model.

### DEPARTMENT OF CS, DU | MACHINE LEARNING INTERN

June 2017 – Aug 2017 | New Delhi

- Developed an unsupervised learning driven behavioral analysis to cluster malware samples based on their behavior.
- Identified the difference between anti-virus assigned labels and labels extracted via clusters.
- Used Self Organizing Maps to perform clustering on the generated behavioral profiles.

### SAG LAB, DRDO | RESEARCH INTERN

Jun 2016 – Dec 2016 | New Delhi

- Implemented a fingerprint enhancement and minutiae detection system which improves the quality of a fingerprint and then extracts characteristic points from it.
- Worked on a novel core point detection algorithm to facilitate fingerprint detection.

## ACADEMIC PROJECTS

### DRIVER DROWSINESS DETECTION | SEMESTER LONG PROJECT

Jan 2017 – May 2017 | Cluster Innovation Centre

- Developed a machine learning pipeline to effectively distinguish between drowsy and alert state of a driver given a set of alertness related features.
- Paper accepted at International Conference on Intelligent Systems Design and Applications (ISDA) 2017 and published in Springer, Cham.

## LEADERSHIP

2018	Assistant Organizer	PyData Delhi
2018	Organizer	PyData Delhi Conference
2017	Student Coordinator	Industry Outreach Cell, CIC
2017	Volunteer	PyData Delhi Conference

## ADDITIONAL INFORMATION

2018	Brown Belt	Shito-Ryu Karate
2017	Runner Up	Delhi State Karate Kumite Competition
2016	Runner Up	Delhi State Karate Kumite Competition