

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

BIOLOGY

Genetics
Neuroscience
Insilico Biology
Immunology
Biological Networks
Bioinformatics

SKILLS

PROGRAMMING

Over 5000 lines:
Python • C++ • MATLAB • Pandas
Numpy • Keras
Over 1000 lines:
Shell • \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