

## Education

**Indraprastha Institute of Information Technology, Delhi**

New Delhi, India

*B.Tech. Computer Science & Applied Mathematics (CSAM)*

2016 - 2020

Advisors: Chetan Arora, Subhashis Banerjee

CGPA - 8.36 (Absolute Grading) : **Top 10 percentile in CSAM**

## Research Experience

**Signal Processing and Biomedical Imaging Lab, IIITD**

New Delhi, India

*Undergraduate Research Assistant*

January 2020 - Present

Advisor: Anubha Gupta

Verifying the Stain Normalisation Algorithm and the effects of Augmentation on classification tasks using Deep Learning experiments on various tumor datasets.

**Indian Institute of Technology, Delhi**

New Delhi, India

*Undergraduate Research Assistant*

August 2018 - January 2020

Advisors: Chetan Arora, Subhashis Banerjee

Applied state of the art object detection techniques and proposed a novel Deep Learning model for Breast Cancer Detection in Mammograms, achieving an increased classification accuracy of 3% AUC on a procured Indian dataset.

**Indraprastha Institute of Information Technology, Delhi**

New Delhi, India

*Undergraduate Research Assistant*

August 2019 - January 2020

Advisors: Jainendra Shukla, Swapna Purandare

Researching fine-grain classification of pollen grain species. Built a dataset of 1400 classes of pollen grains and trained a ConvNet for the fine-grain classification

**Indraprastha Institute of Information Technology, Delhi**

New Delhi, India

*Undergraduate Research Assistant*

January 2019 - May 2019

Advisors: Saket Anand, Swapna Purandare

Used novel dense counting techniques to build a tool for Honeybee counting in dense hives. Built a tool for classification for honeybee health and species classification resulting in significant improvements in the current state of the art scores.

## Industry Experience

**Digital Product School, UnternehmerTUM**

Munich, Germany

*AI Engineer*

May 2019 - August 2019

Advisors: Afsaneh Asaei

Built an automated tool to match and connect AI Freelancers and Jobs using Natural Language Processing, resulting in faster freelancer and job search.

**Indian Statistical Institute Delhi***Data Science Intern*

New Delhi, India

*August 2018 - April 2019*

Advisors: Mudit Kapoor

Applied Statistical techniques to Census Data by NITI Aayog, Government of India, and made engaging visualisations using R and JS-D3, to make the complex data more readable.

**BluePi Consulting***Data Science Intern*

Gurugram, India

*May 2018 - August 2018*

Built an article recommender system using Natural Language procession and generated cohorts using extracted features, leading to significant increase in user engagement and partnership with two news clients.

**Teaching Experience**

Fall 2019: (MTH573) **Scientific Computing**, IIIT Delhi

Spring 2019: (DES130) **Introduction to Engineering Design**, IIIT Delhi

Fall 2018: (CSE101) **Introduction to Programming**, IIIT Delhi

**Achievements**

**Awarded Teaching Assistantships**, in 3 consecutive semesters at IIIT Delhi

**First Position in IIT Delhi Research Open House**, for work on Breast Cancer Detection.

Completed the **Deep Learning Summer School** at **Indian Institute of Technology, Kanpur**

**Leadership and Service**

**Student Representative, Disciplinary Action Committee**, IIITD, 2019/2020

**Member, Student Council**, IIITD, 2019/2020

**Member, Organising Committee**, Annual Technical Fest and Cultural Fests, IIITD, 2018-2020

**President, Photography Cell**, IIITD, 2018/2019

**Member, Sports Council and Basketball Team**, IIITD, 2018/2019

Taught basic high school algebra to underprivileged students, DLF Foundation, May 2017

**Programming Skills**

**Languages:** Python, Java, MATLAB, Julia, L<sup>A</sup>T<sub>E</sub>X, Linux

**Tools and Libraries:** PyTorch, Tensorflow, Scikit-Learn, Pandas, Keras, Caffe