

# ARPIT GUPTA

Undergraduate Student, Indian Institute of Technology Roorkee

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## EDUCATION

### Indian Institute of Technology, Roorkee

📅 July 2017–Present    📍 Uttarakhand, India

- Bachelor of Technology in Electronics and Communication Engineering
- CGPA: 8.171/10

### Saint Soldier Convent School, Muktsar

📅 Apr 2014-Mar 2016    📍 Punjab, India

- Sr. Secondary Education, Central Board of Secondary Education (CBSE)
- Percentage: 91.2

### Dasmesh Public School, Faridkot

📅 Apr 2010-Mar 2014    📍 Punjab, India

- High School Education, Central Board of Secondary Education (CBSE)
- CGPA: 10/10

## TECHNICAL PROJECTS

### Worked on Lectures and Tutorials Portal Web App (LecTut)

📅 Aug 2018-Dec 2018

- Worked as a part of Information Management Group, IIT Roorkee
- LecTut is an intranet based study portal, used by unique 4k campus students and faculty every month with an aim to achieve their academic goals.

### Low Resolution Emotion Detection

📅 Feb 2019-Present

- Supervisor: Saumik Bhattacharya, Assistant Professor, IIT Roorkee
- Emotion Detection Based on facial expression using deep convolution neural network classifying seven different emotions.
- Low resolution face detection using cascaded convolution neural network.

### Stream | Django + React music player

📅 June 2018-July 2018

- Worked as a part of Information Management Group, IIT Roorkee
- Stream is a web app to stream music on a PC, while one can control the song using other PCs connected in a network.
- Visit: <https://github.com/aru31/Stream>

### Copy-Move Forgery Detection Based on Wavelet Compression and Deep Learning

📅 Dec 2018-Feb 2019

- Supervisor: Dr. Vinod Pankajakshan, Assistant Professor, IIT Roorkee
- Used Deep Learning pretrained model (Alexnet on Imagenet).
- Visit: <https://github.com/aru31/CopyForgeAttackPrevention>

## SOCIETIES & MEMBERSHIPS

- Member at Vision and Language Group, IIT Roorkee
- Member at Information Management Group, IIT Roorkee

## ACADEMIC INTERESTS

- Signal Processing
- Image Processing
- Computer Vision

## ACADEMIC ACHIEVEMENTS

- Ranked in top 0.01 percentile in JEE-Advanced 2017 with a rank of 1237.
- Ranked in top 0.01 percentile in JEE-Mains 2017 with a rank of 1562.
- NTSE scholar with an All India Rank of 16.

## NON-ACADEMIC ACHIEVEMENTS

- Secured 5th Place in Syntax Error Hackathon sponsored by Hackerearth, India.
- Participated in International Data Analysis Olympiad by Yandex and achieved a score of 6233.65/10000.

## SKILLS

### Programming Languages and Frameworks

Python, Django, PyTorch, Keras, C/C++, Java, PHP, React, Verilog

### Software & Tools

Linux, Git, Lt Spice, Vivado

## MAJOR COURSES

- ECN-203: Signals and Systems
- CSN-221: Computer Architecture and Microprocessors
- CSN-103: Fundamentals of Object Oriented Programming
- CSN-102: Data Structures
- CS231n: Convolutional Neural Networks for Visual Recognition (Online Stanford Course)
- CS229: Machine Learning (Online Stanford Course)
- Image and Video Processing course by Duke University (Coursera)

## REFERENCE

Dr. Vinod Pankajakshan  
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Electronics and Communication Engineering Dept  
Indian Institute of Technology, Roorkee.  
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