

# YASH AGRAWAL

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## EDUCATION

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**Indian Institute of Technology Roorkee**

*July 2016 - Present*

Bachelor in Technology

Department of Electronics and Communication Engineering

## AREA OF INTEREST

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Software Development, Open Source Development, Data Science, Image Processing, Machine Learning

## WORK EXPERIENCE

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**Google Summer of Code 2018 — Sugar Labs**

April, 2018 - August, 2018

*Student Developer*

- Refactor code of 25 different applications to the latest version of dependencies, ensuring LTS for the applications.
- Dealing with various bugs encountered while making the Desktop Client applications perfect.
- Technology used: GTK+, GStreamer, GObject, Cairo (all in python)

## PROJECTS

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**Enhancing Generalisation Capability of Digital Predistortion**

Prepared a generalised model to remove distortions and generate linearized output in a signal from Power Amplifier using Neural Network. Tech Stack: Python, pytorch, Matlab

**Real Time Panoramic Video Creation using OpenCV**

Real time creation of a panoramic view by providing two input in Raspberry pi. Implement basic algorithms of feature matching like SIFT, RANSAC. Role: Developer — Tech Stack: Python, OpenCV, Bash

**Mars Model — Models and Robotics Section — IIT Roorkee**

A robotic head that follows the movement of a person inside a room using Image detection. Role: Developer — Tech Stack: Python, OpenCV

## TECHNICAL STRENGTHS

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**Computer languages** Python, C, C++, Javascript, Java

**Software & Tools** Django, Django Rest, Glib, GTK+, Flask, PyTorch, Jupyter Notebook, Git, Vim

## ACADEMIC ACHIEVEMENTS

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Secured 1258 rank in JEE Advanced 2016 with 2 lakh students appearing for the test.

99.88 percentile in JEE Mains 2016 with over 11 lakh students appearing for the test.

## EXTRA-CIRRICULAR

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Web team head of campus magazine group Geek Gazette, IIT Roorkee

Worked as a Software Developer at a startup named PIBIT

Speaker at Devcon19 at IIT Roorkee, gave talk on "Getting started with Gnome Libraries"