

# Anubhav Agrawal

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## EDUCATION

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### Bhilai Institute of Technology

*CGPA: 9.0/10 so far*

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2019 – 2023 (*expected*)

### Delhi Public School Durg

*Class 10: CGPA: 9.8/10*

2017

*Class 12: Percent: 81.4%*

2019

## EXPERIENCE

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### Enord

*Computer Vision Intern*

Remote

Sep 2022– Present

- Building AI powered autonomous drones
- Working on Multi-processing File Balancer, Object Detection, Depth Estimation

### International Institute of Information Technology, Naya Raipur

*Summer Intern*

On-site

May – June 2022

- Supervised by **Dr. Shailesh Khapre**
- Worked on **Real-time Smoking and Spitting detection**
- Techniques applied - Deep learning, Data Augmentation, CNN, Transfer learning, Fine-tuning, Mixed Precision
- **Tech stack** - Python, Fastai, Tensorflow, OpenCV, Matplotlib

## PERSONAL PROJECTS

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### Legal judgement text summarizer | Python | [GitHub](#)

- Implemented huggingface summarization pipeline
- Fine-tuned version of PEGASUS model by Google
- Takes original text as string input
- Divides input string into chunks if input is large
- Generates a summary for the given input string
- Customizable length of output(summary generated)
- **Tech stack** - Python, Pytorch, HuggingFace

### Condio - a lossless to lossy audio converter | Python | [GitHub](#)

- Parallized version of audio format conversion
- Can use all cores of the machine
- Supports audio formats like:- WAV, FLAC, M4A
- Adjustable bitrate
- **Tech stack** - Python, Ffmpeg, Glob, Multiprocessing

### Bengali Font Classification | Python

- Dataset - *CMATERdb3.1.2* containing images of bengali alphabets
- Trained using **Transfer learning** technique
- Fine-tuned a convolutional neural network(resnet34 arch)
- Accuracy on unseen test set - 98.96%
- **Tech stack** - Python, Fastai, OpenCV

### Panorama Image Stitching | Python | [GitHub](#)

- A panorama like image creator built using opencv stitcher module
- Stitches multiple images into a single image
- Independent from number of input images
- Intelligently compensates for difference in lighting exposure, contrast errors
- No significant loss of image content and resolution

- Can take any and all input images with some overlapping area
- **Tech stack** - Python, OpenCV, Numpy

#### Neural Style Transfer | Python | [GitHub](#)

- Implementation of paper titled "A Neural Algorithm of Artistic Style" by Gatys et al.(2015)
- Takes two images as input i.e Content image and Style image
- Generates new image by blending contents of content image in style of style image
- **Tech stack** - Python, Pytorch, OpenCV, Matplotlib, Numpy, Pillow

### TECHNICAL SKILLS

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**Programming Languages:** Python, C, MATLAB, C++

**Libraries(Python):** Fastai, Pytorch, Tensorflow, Numpy, Pandas, Scikit-learn, OpenCV, Matplotlib

### EXTRA-CURRICULARS

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**Finalist** Smart India Hackathon 2022 (Software edition)

**Winner** Brainstation India Ideathon 2021

**Machine Learning Lead** at Google developer scholars club (GDSC BITD)

### ONLINE CERTIFICATIONS AND SPECIALIZATIONS

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**Edx:**

MIT 6.86x: Machine Learning with Python-From Linear Models to Deep Learning

**Coursera:**

Generative adversarial Networks (GANs) specialization

AI for Medicine Specialization by deeplearning.ai

Deep Learning Specialization by deeplearning.ai

TensorFlow Developer Professional Certificate deeplearning.ai