

# Anubhav Agrawal

☎ +91 7024 880 719 | ✉ [anubhavagr.mail@gmail.com](mailto:anubhavagr.mail@gmail.com) | 🌐 [GitHub](#) | 📍 Bhilai, Chhattisgarh

## EDUCATION

---

### Bhilai Institute of Technology

*CGPA: 9.0/10.0 so far*

Durg

2019 – 2023 (*expected*)

### Delhi Public School

*Class 10: CGPA: 9.8/10.00*

*Class 12: Percent: 81.4%*

Durg

2016 – 2017

2018 – 2019

## EXPERIENCE

---

### 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

## SIGNIFICANT PROJECTS

---

### 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
- Changeable Max length of summary
- **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 - *cmaterdb* containing images of bengali alphabets
- Transfer learning technique incorporated
- Fine-tuned a convolutional neural network(resnet34 arch)
- Accuracy on unseen test set - 98.6%
- **Tech stack** - Python, Fastai, OpenCV

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

- A panorama like image creator built on Python
- 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

---

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

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

## EXTRA-CURRICULARS

---

**Winner** Brainstation India Ideathon 2021

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

## ONLINE CERTIFICATIONS AND SPECIALIZATIONS

---

**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

**Edx:**

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