

Anubhav Agrawal

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EDUCATION

Bhilai Institute of Technology

CGPA: 9.0/10 so far

Durg

2019 – 2023 (*expected*)

Delhi Public School Durg

Class 10: CGPA: 9.8/10

2017

Class 12: Percent: 81.4%

2019

EXPERIENCE

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

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

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

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

EXTRA-CURRICULARS

Finalist Smart India Hackathon 2022 (Software edition)

Winner Brainstation India Ideathon 2021

Machine Learning Lead at Google developer scholars club (GDSC BITD) 2021-22

ONLINE CERTIFICATIONS AND SPECIALIZATIONS

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

NVIDIA Deep Learning Institute:

Fundamentals of accelerated computing with CUDA Python