Anubhav Agrawal

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EDUCATION

Bhilai Institute of Technology Durg
CGPA: 9.0/10.0 so far *2019 − 2023 (expected)*

Delhi Public School Durg
*Class 10: **CGPA: 9.8/10.00*** *2016 − 2017*
*Class 12: **Percent: 81.4%*** *2018 − 2019*

EXPERIENCE

International Institute of Information Technology, Naya Raipur On-site
Summer Intern *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

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