Anushka Agarwal

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WORK EXPERIENCE

Researcher
Computer Vision Research Society [08/08/2021 – Current]

City: Pilani
Country: India

1)Working in collaboration with a group of undergraduate researchers on multiple research papers.
2)Worked on a research project **Video Action Recognition for Low Resolution** using Graph Neural Network.
3)Tasks Include:
a)Conducting a detailed Literature survey and understanding already existing architectures
b)Implementing the published papers
c)Developing efficient methods and algorithms

Research engineer
Omnipresent Robot Tech [07/07/2021 – 07/10/2021]

City: Delhi
Country: India

1) Worked on the project **Camera Health Management System,** which was the application of Deep Learning and Computer Vision for smart video surveillance.
2)Task included implementing already existing computer vision algorithms and deploying them to hardware devices(**Jetson Nano).**

ML Intern
I8Labs [01/06/2021 – 30/07/2021]

City: Gurugram
Country: India

1)Extraction and preprocessing of financial data. Using Machine Learning and its algorithms for dealing with the extracted data.
2)Deployment of models to AWS serverless.

Research Intern
SRM University [01/05/2021 – Current]

City: Chennai
Country: India

1)Having an in-depth literature survey of the state of the art papers related to Medical Computer Vision.
2)Working on the application of image segmentation for detecting Covid -19 in patients with CT scans using multiple CNN architectures

DIGITAL SKILLS

Machine Learning / Computer Vision / Deep Learning / Django

PROJECTS

Semantic Segmentation UNET using Transfer Learning
  - Implementation of UNET architecture from scatch semantic segmentation on custom Dataset.

https://github.com/anushka17agarwal/Segmentation_UNET

CT Scan Classification Using Transfer Learning
  - Implementation of multiple CNN architectures for classifying lung CT Scan.

https://github.com/anushka17agarwal/Covid_CT_Scan_Classification

Sign Language Detection using Computer Vision and Deep Learning
  - A computer vision-based tool used to detect the sign languages and give text/verbal translations hence making it easier for mute people to communicate in real world.

https://github.com/1psrishti/Sign-Shazam

CLI- based Encryption
  - CLIK is a command line interface tool to hide and manage your API keys and Secret/Auth tokens. This is for project managers for easy management of project-related keys and their distribution.
  - The project is currently live on PYPI and available as a python package/ Executable

https://pypi.org/project/python-clik/1.0/

PUBLICATIONS

Differentiating objective and subjective semantics using Text mining and Web Scraping: A Comparative Study
[2021]
https://www.ijser.org/onlineResearchPaperViewer.aspx?Differentiating-objective-and-subjective-semantics-using-Text-mining-and-Web-Scraping-A-Comparative-Study.pdf