

Harsh Agarwal

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EDUCATION

Maharaja Agrasen Institute Of Technology

New Delhi, IND

Bachelor of Technology (B.Tech) in Computer Science and Engineering

2018 - 2022

TECHNICAL SKILLS

Languages: Python, C/C++, Java

Frameworks: Flask, Tensorflow, Pytorch, Scikit-Learn

Developer Tools: Git, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Jupyter Notebooks, Anaconda

Libraries: Pandas, NumPy, Matplotlib, Plotly, Selenium, Scrapy

EXPERIENCE

Upwork Freelance Data Science

September 2020 – Present

Various

- Developed Python Scripts for scraping data from various sources using Selenium and Scrapy.
- Developed Commercial Chatbot using Rasa and Python.

PROJECTS

Face Profile Completion | *GAN, GCP, Pytorch, Python*

- Objective: Given the profile of a person, can we generate the entire face structure.
- Used Adversarial Networks to compete against each other, One to generate fake images (Generator), other to defy it (Discriminator).

Real Time Semantic Segmentation | *Tensorflow, Tensorflow.js, OpenCV, Python*

- Used Ensemble version of Various Model Architecture such as U-Net, FCN, U-2-Net, etc.
- Trained on Cityscapes Dataset and deployed using Tensorflow.js

Image Classification | *CNN, ResNet*

- Classified images from the CIFAR-10 dataset. The dataset consisted of airplanes, dogs, cats, and other objects.
- The project involved preprocessing the images, then training a convolutional neural network on all the samples.
- The images needed to be normalized and the labels had to be one-hot encoded. Built convolutional, max pooling, dropout, and fully connected layers.

FURTHER EDUCATION

Natural Language Processing Specialization | *Coursera*

September 2020

DeepLearning.AI TensorFlow Developer | *Coursera*

August 2020

Deep Learning Specialization | *Coursera*

July 2020

Automate the Boring Stuff with Python Programming | *Udemy*

June 2019