Udbhav Prasad

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Work Experience

Application Programmer, Ministry of Health and Long-Term Care (MOHLTC) Sep 2020 – Apr 2021
- Wrote Python Scripts to edit webpages via a GUI, so that clients without expertise in webpages and servers could gain access to and update server pages for latest information and reports.
- In the need to find the maximum users the server could handle, I created JMeter scripts to Performance Test SAS and Cognos reports which resulted in determining the server constraints and bottlenecks

Education

Ryerson University | Toronto ON
Computer Science – BSc (Co-op) *Sep 2018 – May 2023*
CGPA: 3.74 (Dean's List '19- '20)
Majoring in Computer Science
- Data Structures & OOP
- Functional Programming

Minoring in Mathematics
- Calculus & Computational Methods
- Linear Algebra
- Discrete Mathematics

Technical Skills

Languages	Technologies	Libraries
Python	Apache Spark	PyTorch
Java	PostgreSQL	Scikit-Learn
Scala	Apache JMeter	NumPy
SQL	MS Office	Pandas
	Linux & UNIX	PySpark
	Git	Matplotlib
		Seaborn

Projects   (Code on GitHub)

Neural Style Transfer

Data Analysis | Computer Vision | Deep Learning | November 2020

- Neural Network to Transfer Style from one Image to another, producing Artistic Photographs.
- Used Transfer Learning (VGG19) for feature extraction in style transfer
- Produced Beautiful Images

Transformers Implementations: Language Translation & Image Classification (ViT, DeiT)

NLP | Deep Learning | Computer Vision | December 2020 - **Ongoing**

- Implemented: Vision Transformer, Data efficient image Transformer and other transformer models from research papers in PyTorch
- From Attention is all you need, created a **Language Translation** model from German to English.
- From **ViT & DeiT** paper, created model for classification tasks for Images.
- Trained & optimized multiple models from these implementations.

Generating Fake Faces with Convolutional Variational Autoencoders

Dimensionality Reduction | Computer Vision | Deep Learning | August 2020

- Unsupervised Learning Model (Autoencoder) learns to map features of dataset of faces.
- Maps to low dimensional Latent Space where interpolation creates faces of people that never existed.
- Implemented from paper: Feature Perceptual Loss to results