

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

- Python
- Java
- Scala
- SQL

Technologies

- Apache Spark
- PostgreSQL
- Apache JMeter
- MS Office
- Linux & UNIX
- Git

Libraries

- PyTorch
- Scikit-Learn
- NumPy
- Pandas
- PySpark
- 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

Transformer 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