

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: 3.75 (Dean's List '19- '20)

Majoring in Computer Science

- Data Structures
- Object Oriented Programming
- Functional Programming

Minoring in Mathematics

- Calculus & Computational Methods
- Linear Algebra
- Discrete Mathematics

Technical Skills

Languages	Technologies	Libraries
<ul style="list-style-type: none">• Python• Java• Scala• SQL• C	<ul style="list-style-type: none">• Apache Spark• Hadoop• Apache JMeter• SQLite• MS Office• Linux & UNIX• Git	<ul style="list-style-type: none">• PyTorch• Scikit-Learn• Spacy• NumPy• Pandas• Matplotlib• Seaborn

Projects

[\(Code on GitHub\)](#)

[Neural Style Transfer](#)

Data Analysis | Time-Series Analysis | Deep Learning | November 2020

- A 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 which are on display on GitHub Repository

[Transformers Implementations: Language Translation & Image Classification \(ViT\)](#)

NLP | Deep Learning | December 2020 - Ongoing

- Implemented Vision 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 **Vision Transformer** paper, created model for classification tasks for Images

[Generating Fake Faces with Convolutional Variational Autoencoders](#)

Dimensionality Reduction | Computer Vision | Deep Learning | August 2020

- An Unsupervised Learning Model (Autoencoder) that learns to map important features of faces
- Maps Images to 100-Dimensional Continuous Latent Space Representation
- Interpolation across latent space creates faces of people that never existed
- Implemented Feature Perceptual Loss