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

- Python
- Java
- Scala
- SQL

Technologies

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

Libraries

- PyTorch
- Scikit-Learn
- 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