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 with JavaScript to edit webpages via a GUI, so that clients without expertise in webpages could update server pages for latest information and reports.
- In the need to find the maximum users the server could handle, I Performance tested servers with JMeter scripts to which resulted in determining the server constraints and bottlenecks.

Education

Ryerson University | Toronto ON
Computer Science – BSc (Co-op) *Sep 2018 – Dec 2022*
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
SQL	PostgreSQL	Scikit-Learn
Java	Apache JMeter	NumPy
Scala	MS Office	Pandas
	Docker	spaCy
	Linux & UNIX	PySpark
	Git	Matplotlib
		Seaborn

Projects   (Code on GitHub)

Trump's Tweets: Exploratory Data Analysis

Data Analysis | NLP | February 2021

- Data Analysis on Trump's Twitter Insult Tweets to gain insights (NumPy and Pandas)
- Insights plotted on a variety of graphs and visualizations with Seaborn
- Text Classification model trained with spaCy: Predicting the year, the tweet was written based on tweet text
- Based on Kaggle dataset

Transformer Implementations: Library/Package (ViT, DeiT)

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

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