

# Udbhav Prasad

ASPIRING DATA SCIENTIST · ANALYST

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## Skills

<b>Languages</b>	Python, SQL, Java, Scala
<b>Frameworks</b>	Spark, Hadoop, NiFi, Kafka, JMeter
<b>Dev. Tools</b>	Azure, Databricks, Docker, Linux, Git
<b>Libraries</b>	PyTorch, PySpark, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, spaCy

## Experience

### Ministry of Health and Long-Term Care

Toronto, Canada

APPLICATION PROGRAMMER

Sept. 2020 - Aug. 2021

- Created Proof-Of-Concept application for Distributed Stream Processing of Logs for Errors and Intrusion with Scalability in focus; made with Spark, Kafka, Hadoop and NiFi; which was implemented in ministry production servers
- Managed cluster where I Installed and Configured many Software and Big Data Technologies (Spark, Kafka, Hadoop, PostgreSQL, etc.) on Multi-Node Cluster (6 Nodes) intended for use by other developers
- Debugged and finished incomplete Python Application to automate excel reports' formatting for Ontario Disability Requirements
- Performance Tested multiple applications with JMeter to determine maximum concurrent users resulting in clearance for Production use
- Wrote Scripts in JavaScript and Python for GUI to change and backup web-pages in production server

## Education

### Ryerson University

Toronto, Canada

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.74 - DEAN'S LIST '19 - '20

September 2018 - May 2023

- **Minor in Mathematics**
- **Relevant CS Coursework:** Machine Learning, Data Structures, Algorithms, Databases, Functional Programming, OOP
- **Relevant Math Coursework:** Calculus and Computational Methods, Linear Algebra, Discrete Math, Probability and Statistics

## Projects

### Transformer Implementations Package: [GitHub](#)

Open Source Contribution

PYTHON | PYTORCH | DEEP LEARNING | NATURAL LANGUAGE PROCESSING | COMPUTER VISION

Nov 2020 - Ongoing

- Published Package on [PyPi](#)
- Implemented multiple Transformer neural networks from scratch with extensive documentation
- Trained and optimized multiple models implemented
- Models used in tasks such as Image Classification and Sequence-to-Sequence translation
- Models: Vision Transformer (ViT), Data efficient image Transformers (DeiT), Transformer

### Image Generation with GANs & Auto-encoders: [GAN library](#) & [VAE - Faces](#)

Open Source Contribution

PYTHON | PYTORCH | GENERATIVE MODELING | DEEP LEARNING | COMPUTER VISION

Jan 2021 - Ongoing

- Published Package on [PyPi](#)
- Implemented multiple GANs and Auto-encoders from scratch with extensive documentation
- All models trained and optimized producing realistic images
- Models Implemented: StyleGAN, DCGAN, WGAN, SNGAN, Variational Autoencoder, etc.