Udbhav **Prasad**

Aspiring Data Scientist · Analyst

Downtown, Toronto ON, Canada

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Skills

Languages	Python, SQL, Java, Scala
Frameworks	Spark, Hadoop, NiFi, Kafka, JMeter
Dev. Tools	Azure, Databricks, Docker, Linux, Git
Libraries	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

Realistic Image Generation with GANs and 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.