# Vignesh Edithal

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#### **OBJECTIVE**

Looking for Machine Learning Engineer roles in Computer Vision and Data Science domain. Interested in contributing to AI and ML projects by leveraging programming and research skills.

### WORK EXPERIENCE

D. E. Shaw Senior Member Technical July 2018 - July 2022 Hyderabad, India

- · Enabled firm-wide hierarchical permission management feature using Python and SQL backend
- · Automated third party file transfers for HR using Python/Bash scripting leading to 10% ticket reduction
- · Provided engineering support for production Linux cluster to SysAdmin team to reduce SRE escalations

### PROJECT WORK

## Brain Tumor MRI synthesis using aggregation of GANs

University of Toronto

- · Implemented and trained DCGAN and WGAN models from scratch with tuned hyper-parameters
- · Pre-processed data using up/down-sampling and used style transfer for post processing
- · Obtained PSNR and SSIM scores comparable to relevant literature
- · Showcase research in poster presentation with industry/faculty and submitted conference format report

#### Machine learning to predict college drop out rate

IIT Madras, India

- · Exploratory data analysis followed by data cleaning and transformation using scaling pipelines
- · Evaluation and Hyper-parameter tuning of 10 ML algorithms from scikit-learn library
- · Identify best performing combination of algorithm and parameter set for the classification problem

## **PUBLICATION**

Novelty Goes Deep. A Deep Neural Solution To Document Level Novelty Detection. (Ghosal, Edithal et. al., COLING 2018). (aclanthology.org/C18-1237)

#### **EDUCATION**

University of Toronto

September 2022 - December 2023 (expected)

MSc in Applied Computing: Deep Learning, Computer Vision, Data Science GPA: 4.0/4.0

IIT Madras

December 2021 - August 2022

Diploma in Data Science: Statistics, Machine Learning, Business Analytics GPA: 9.3/10

IIT Patna

September 2014 - May 2018

BTech in Computer Science: Algorithms, Databases, Operating Systems GPA: 8.9/10

## TECHNICAL STRENGTHS

Scripting Bash, PowerShell, Python

Deep learningTransformers, PyTorch, Keras, Hugging FaceComputer VisionOpenCV, TorchVision, Decord, Scikit-image

Data Science Pandas, Numpy, Matplotlib, Scikit-learn, SQL Alchemy