Vignesh Edithal

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OBJECTIVE

Looking for Machine Learning Engineer roles in Computer Vision and Data Science. Contribute to challenging problems by leveraging analytical, programming and research skills.

EDUCATION

University of Toronto

September 2022 - December 2023 (expected)

MSc in Applied Computing: Deep Learning, Computer Vision, Data Science, GPA: 4.0/4

IIT Madras

December 2021 - August 2022

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

IIT Patna

BTech in Computer Science: GPA: 8.9/10

September 2014 - May 2018

PROJECT WORK

Brain Tumor MRI synthesis using aggregation of GANs

University of Toronto

- · Trained PyTorch implementation of DCGAN and WGAN including Hyperparameter tuning
- · Pre-processing such as resize and up/down-sampling. Post-processing using style transfer
- · Obtained PSNR and SSIM scores comparable to that of a scientific research paper
- · Presented work to industry and faculty during poster presentation, submitted conference format report

Novelty detection in texts

IIT Patna

- · Capture semantic redundancy in documents using CNN and self-attentive network
- · Presentation for feedback collection with the AI-NLP-ML group of IIT Patna
- · Published in COLING 2018: https://aclanthology.org/C18-1237.pdf

WORK EXPERIENCE

Advanced Micro Devices (AMD) Machine Learning Research Intern May 2023 - December 2023 (expected)

Markham

- · Literature Survey of state-of-the-art Computer Vision models for Event Detection in Video Games
- · Fine-tuned a CLIP model to obtain 94% accuracy in detecting kill and death events in CSGO
- · Evaluated models such as Vision Transformer, Masked Auto Encoders and ResNet using PyTorch
- · Designed an efficient data collection methodology to develop an in-house dataset from scratch

D. E. Shaw Senior Member Technical

July 2018 - July 2022 Hyderabad

- · Contributed to firm wide permission management system using Python and SQL backend
- · Scripted complex inter-team processes using Python/Bash to reduce SysAdmin tickets by 25%
- · SRE support for in-house Linux cluster and Windows farm to prevent critical issues

TECHNICAL STRENGTHS

Scripting Bash, PowerShell, Python

Deep learning Transformers, PyTorch, Keras, Hugging Face

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