Vignesh Edithal

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OBJECTIVE

Looking for a co-op internship where I can leverage my applied research experience with deep learning and knowledge from computational imaging coursework. Interested in contributing to computer vision problems involving drones, autonomous vehicles and robotics.

EDUCATION

University of Toronto   **September 2022 - Present**
MSc in Applied Computing: AI, Computer Vision, Data Science, Statistics

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**
B.Tech in Computer Science: GPA: 8.9/10

WORK EXPERIENCE

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

· SRE support for in-house Linux cluster to prevent trading issues
· Developed identity and permission management application for all users in the firm
· Scripted complex inter-team processes to reduce SysAdmin manual work by 25%

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

Bone age prediction from X-ray images   **IIT Patna**

· Develop image classification network using Keras for VGGNet and Inception networks
· Ablation study to evaluate the affect of gender information on performance

Novelty detection in texts   **IIT Patna**

· Compare semantic information between 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

Technical Strengths

Scripting	Bash, PowerShell, Python
Web development	FastAPI, React.js, SQL Alchemy
Deep learning	Transformers, PyTorch, Keras
Statistical Analysis	R, MATLAB
Data Science	Pandas, Numpy, Matplotlib