Vignesh Edithal

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EDUCATION

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

IIT Madras **December 2021 - August 2022**
Diploma in Data Science: Statistics, Machine Learning, Business Analytics

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
· Automated complex inter-team processes to reduce SysAdmin manual work by 25%

PROJECT WORK

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

Topic modelling of medical research papers **Elsevier, Chennai**

· Survey of unsupervised ML algorithms such as Clustering, matrix factorization
· Identify hidden topics from gigabyte sized corpus of medical research papers
· Associated research papers with topics to extract meaningful insights

Machine learning to predict college drop out rate **IIT Madras**

· Exploratory data analysis followed by data cleaning and transformation using pipelines
· Evaluation and Hyper-parameter tuning of 10 ML algorithms from scikit-learn library
· Gained advanced knowledge of Data SciNumpy, Scipy, Pandas

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

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