

# Vignesh Edithal

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## OBJECTIVE

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Aspiring Data Scientist looking for an applied research internship involving deep learning and statistics to create explainable AI solutions. Contribute to computer vision problems by leveraging research experience in deep learning.

## EDUCATION

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**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

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**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

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**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**

- 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>

**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 Numpy, Scipy, Pandas

## Technical Strengths

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<b>Scripting</b>	Bash, PowerShell, Python
<b>Web development</b>	FastAPI, React.js, SQL Alchemy
<b>Deep learning</b>	Transformers, PyTorch, Keras
<b>Data Science</b>	Pandas, Numpy, Matplotlib