

Atharva Phatak

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EDUCATION

Lakehead University

Masters of Computer Science

Thunder Bay-ON, Canada

May 2021 - May 2023

Yeshwantrao Chavan College of Engineering

Bachelor of Engineering in Computer Technology , CGPA: 8.42/10.0

Nagpur, India

July 2016 - October 2020

SKILLS

- **Statistics/Machine Learning:** Linear/Logistic Regression, Decision Trees, Random Forests
- **Languages:** Python, C++, LaTeX, SQL
- **Libraries:** PyTorch, Keras, Scikit-Learn, Numpy, Pandas, Plotly, Seaborn, BeautifulSoup

PROJECTS

1. *TorchFlare*

- Designed a high level open source deep learning library on top of PyTorch for easy model training and fast experimentation.

2. *Is that a Melanoma*

- Used Transfer Learning approach using Efficient-b0 as a backbone to perform classification of skin lesions as melanomas or not.
- The model was able to achieve ROC-AUC score of 0.90.

3. *Glassdoor Job Analysis*

- Created custom web scraper using python and BeautifulSoup to scrape 800 job postings from glassdoor.com
- Used Random Forest to predict whether the job posting will have salary above median salary or not
- Analysed and understood the models predictions using Machine Learning Interpretability.

4. *Text To Image Synthesis*

- Implemented generative adversarial networks to synthesize photo realistic images from given text descriptions.
- GAN-CLS algorithm was used to train the networks.
- Caltech UCSD 200 dataset was used for training.

5. *Object Detection for Traffic Surveillance Systems*

- Implemented YoloV3 object detection algorithm to address the problem of detection of triple seat riders.
- Created a custom dataset of 500 images to train the algorithm.
- The trained model achieved an accuracy of 70% on the test set

ACHIEVEMENT'S AND EXTRA CURRICULAR'S

• Data Science Competitions

1. Jigsaw Multilingual Toxic Classification(Kaggle Data Science Competition)

- Our team Ranked in top 5% worldwide by using transformer based methods with a rank of **76** out of **1621** teams.

2. Tweet Sentiment Extraction(Kaggle Data Science Competition)

- Our team Ranked top 10 % worldwide by applying NLP based deep learning techniques obtaining a rank of **221** out of **2227** teams.

3. ASHRAE - Great Energy Predictor III (Kaggle Data Science Competition)

- Ranked in top 10% worldwide by using ensemble methods and obtained a rank of **343** out of **3614** teams.

• Kaggle Competitions Expert.

• Qualified for the Grand Finale of *Smart India Hackathon 2018 - 2019*

• Mentor at Coding Club YCCE.