Debojit Nath

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Education

Indian Institute of Technology Madras 2021 - 2023
Diploma in Data Science *Online*

Techno India Institute of Technology 2018 - 2021
Bachelor of Computer Application, SGPA: 8.5 *Kolkata, West Bengal*

Kendriya Vidyalaya Fort William 2009 - 2018
CBSE, GPA: (class 12th) 86.5%, (class 10th) 95% *Kolkata, West Bengal*

Experience

Data Science Intern June 2021 - December 2021
Empliance Information Services India LLP

- Developed scripts for data extraction process from more than 50 sources to create Structured Data for the legal team to use for Compliance Check using Selenium and BeautifulSoup
- Automated the process of downloading files of clients from MCA.gov, from logging in to saving them locally in a desired structure while handling captcha checking
- Fine Tuned HuggingFace model to classify Indian articles for Adverse Media Check with an accuracy of 95% and deploying an interactable webapp using Flask

Data Science Intern February 2021 - May 2021
Iha Consulting Services Pvt. Ltd

- Built a Masked Face Recognition model using TensorFlow Object detection API and then converting to TFLite for optimized performance which performed better than out of the box solutions given they failed to detect faces

Relevant Coursework

Deep Learning Specialization November 2019
Certificate Link *Deeplearning.ai*

Machine Learning August 2019
Certificate Link *Stanford Online*

Mathematics for Machine Learning: Linear Algebra February 2020
Certificate Link *Imperial College London*

Projects

ASL Detection

- Fine Tuned Faster R-CNN ResNet-50 FPN from PyTorch's model zoo for American Sign Language Detection using Detecto

Toxic Comment Classification Challenge

- Participated in the Toxic comment classification challenge on Kaggle and trained a multi-label classification model which scored 0.9845 on public leaderboard

Fashion Apparel classification

- A dataset with imbalanced classes was used to train a VIsion Transformer model with re-sampling method to tackle the class imbalance problem and improved the accuracy of the Vision Transformer model from 66% to 69%

Technical Skills

Languages: Python, C++, C
Frameworks: TensorFlow, PyTorch, Fastai, Flask
Libraries: Scikit-learn, HuggingFace, Keras, OpenCV, NLTK, Detecto, Selenium, BeautifulSoup