Rimo Ghosh

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Github Profile
LinkedIn Profile
Leetcode Profile
Codechef Profile
Codeforces Profile

Education

•Kalinga Institute of Industrial Technology, Bhubaneshwar *2021-25*
Bachelor of Technology in Computer Science and Engineering CGPA: 8.47

•Douglas Memorial Higher Secondary School, Kolkata - Senior Secondary *2021*
Indian School Certificate Examination (ISC) Percentage: 93

Technical Skills and Interests

Languages: C/C++, Python, Java, Golang, HTML+CSS , JavaScript
Libraries : Numpy,Pandas,Seaborn
Frameworks: PyTorch, TensorFlow, Scikit-Learn, SpaCy
Databases:MongoDB, Relational Database(MySQL)
Relevent Coursework: Machine Learning Specialization (Coursera), Deep Learning with PyTorch (Jovian).
Areas of Interest: Computer Vision, Natural Language Processing and Reinforcement Learning.
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

Personal Projects

•Image Colorizer using CNN's and Inception-ResNet-v2
A web application using Streamlit that can Colorize Black and White Images.

- Trained the dataset on ImageNet 12k and further refined the model by training on datasets from different classes like landscape,persons,animals etc.
- Technology Used: Pytorch, StreamLit.

•YouTube-API Server
A golang project that uses youtube-api to fetch query videos and stores the result in a database

- Launches a golang server locally and you can either search for videos using youtube-api and store them in the database (mysql) or search an item from the database).
- Before adding the item to the database it checks if the etag for the query video has changed or not. If it has changed it updates the changes required. This avoid insertion of duplicate queries and is also fast.
- Technology Used: Golang, YouTube-API-v3, MySql.

•Sign Language Detection
Detecting Sign Languages using Graph Neural Newtorks

- using the gesture coordinates generated using Mediapipe, I first translated the image classification dataset to a graph classification dataset.
- Using graph attention conv network the model achieved quite a good accuracy on both training and testing set and deployed using streamlit.
- Technology Used: Pytorch-geomtric,Streamlit,Mediapipe

•Toxic Comment Classifier
Classify various toxic comments using fine-tuned DistilBert and deployed using FastAPI

- Built a multi-headed model that's capable of detecting different types of of toxicity like threats, obscenity, insults, and identity-based hate which can help reduce online harassment and improve online conversations
- Technology Used : Pytorch , FastAPI.

Society

• GDSC KIIT - Machine Learning Member