SHONIT DALMIA

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Electrical Engineering IIT (BHU), Varanasi	8.34	2022
CBSE (XII)	Prakash Higher Secondary School	85.80	2017
CBSE (X)	Prakash Higher Secondary School	87.40	2015

SKILLS

Languages-C++,Python
Technologies-React,MySQL,MongoDB,NLP
Areas of Interests-,Algorithmic Programming,Data Structures,Operating Systems,OOPS,Web Development,RDBMS,

INTERNSHIP/TRAINING

Summer Project
June'20-July'20

Domain Adaptation in Sentiment Analysis

- Applied Domain Adaptation in the datasets having same domain feature space but different marginal distribution.
- Gradient reversal layer is used which tries to distinguish the target domain input from the source domain. It multiplies the gradient by a certain negative constant during the back propagation.
- Two classifiers were used -Sentiment Classifier other Domain Classifier.For the sentiment classifier BERT [CLS] representation was used and for the domain classifier, the same [CLS] representation was used after applying the gradient reversal layer.
  Target domain input trained the domain classifier while the source domain input trained domain classifier and also the sentiment classifier.
  Exposure-NLP, PyTorch , Huggingface transformers library

PROJECTS

Face Detection Website
May'21

Using Machine Learning API to detect face in a given image

- Designed and Developed the front end of the website using HTML,CSS, Javascript and React
- Implemented Backend using Node.Js,Express.Js.
- Used Machine Learning API for face detection
- Deployed the website through Heroku.
  Exposure -Restful APIs, Javascript, Node.Js, Databases, Deployment

Interview Forum
March 2020

Created a Website where students can post their interview experience

- Developed a website that enables users to share their interview experience
- User can add, edit and delete their interview experience
- Created a dashboard page where users can find all blogs written by them
  Technologies used- HTML, CSS, JavaScript ,Express.js ,MongoDB

Wind Speed Prediction
March'21

- Used various climatic factors as input data for a Neural Network model to predict the wind speed
- Regularisation techniques such as early stopping ,batch normalisation ,dropout was used to prevent overfitting.
- Model was tested on real data and got a 20% Mean Absolute Percentage Error.
  Exposure-Keras,Tensorflow,Google Colab.

HONOURS AND ACHIEVEMENTS

Codeforces Rating

Participated in various contests on **Codeforces** and achieved max rating of **1536**(https://codeforces.com/profile/cicada30)

Leetcode Rating

Solved around 800 problems on **Leetcode** and achieved a max rating of**1889**(https://leetcode.com/helloworld2602/)

JEE Advanced 2018

Secured rank 6234 among 1.55L participants

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