SOUMYODEEP DEY

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EDUCATION

MS(R) | *Artificial Intelligence (AI)*	07/2023 -
IIT Delhi	Grade: 7.29
B.Tech | *Computer Science and Engineering*	07/2018 - 05/2022
NIT Durgapur	Grade: 7.99
Class - XII CBSE	2018
Indus Valley World School	Percentage: 94

SKILLS

Programming Languages: C/C++, Python, Java
Libraries/Frameworks: Numpy, Pandas, Matplotlib, Seaborn, nltk, spacy, librosa, Tensorflow, Keras
Relevant Courses in College: Machine Learing, Mathematics for ML, Database Management System, Artificial intelligence, Soft Computing, Data Analytics, Digital Image Processing, Distributed Systems

INTERNSHIPS/TRAININGS

Trainee Engineer - Publicis Sapient   07/2022-11/2022

Research and Development Intern - SAMSUNG (SRIB)   01/2022-07/2022
Worked in the domain of cross-device AI research. Came up with ideas to increase user interaction and participation on a multi device ecosystem. Applied classical Machine Learning models to characterize cross-device search tasks.

Research Assistant - NIT Durgapur   06/2021 - 01/2022
Project I
Carried out research in neighbourhood-based Collaborative filtering to come up with a new similarity measure to solve the problems faced by traditional similarity measures.

Project II
Applied ML and DL models to mitigate DoS and DDoS (Distributed Denial of Service) attacks on Mobile Ad-Hoc Networks. Classification as malicious or normal was done using the history of a node and it helped overcome problems faced in traditional approaches like firewalls.
Link to paper: *https://link.springer.com/article/10.1007/s10922-023-09742-3*

Research Intern - IIT Patna   04/2021-08/2021
Applied various models on the text and the images part, to implement Multimodal fusion architecture, to improve the results for Amazon complaint identification.
Different embeddings like GloVe, BERT, etc. were used to observe the change in F1 scores.
Tried to improve the results on complaint identification using two other classes- sentiment and emotion by using the concept of MultiTask Learning.
Link to the paper at AAAI 2022: *https://ojs.aaai.org/index.php/AAAI/article/view/21476*

Artificial Intelligence and Machine Learning   12/2019 - 01/2020

Central Tool Room and Training Centre (MSME)

PERSONAL PROJECTS

(i) Music Genre Classification

Here I worked on the GTZAN dataset consisting samples of 10 different music genres, and tried to classify them using Deep learning frameworks like MLP, CNN and RNN.

(ii) Fake News Identification

Here I worked on the Kaggle Fake news dataset to identify unreliable news articles. I tried to do the classification using classical machine learning models and also sequential models.

(iii) Movie Recommendation System

Built a recommender using Collaborative Filtering to suggest users, movies according to their liking.

(iv) Text Classification

Here I classified a list of sentences as positive or negative sentiment based on how the user phrased his sentence

COURSES / CERTIFICATION

(i) Deep learning Specialization (5 courses)

DeepLearning.AI - Andrew Ng

(ii) Tensorflow Developer Professional Certificate Specialization (4 courses)

DeepLearning.AI - Andrew Ng

(iii) Cryptography and Network Security

NPTEL (Swayam) by Sourav Mukhopadhyay

https://drive.google.com/file/d/1f7ZBPuChTiEWo1MGRBABJ-bUd4XfuEXb/view?usp=sharing

(iv) Fuzzy Logic and Neural Networks

NPTEL (Swayam) by Dilip Kumar Pratihar