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EDUCATION

Master of Technology

Computer Science & Engineering, IIT Kanpur [↗](#)

08/2021 - Present

Bachelor Of Technology

Electrical Engineering, IIT PATNA [↗](#)

04/2016 - 07/2020

CPI - 7.53

Intermediate/+2

Adarsh Vikas Vidyalaya (CBSE) [↗](#)

05/2014 - 04/2016

Score - 90.2%

WORK EXPERIENCES

Software Engineer

Cognam Technologies Pvt. Ltd. [↗](#)

08/2020 - 07/2021

Dwarka, New Delhi

Tasks

- Worked with ML Team on different financial-based projects like Face Recognition, Forecasting, etc.
- Worked on the model performance and built a robust system.
- R&D new machine learning approach and methods to implement it on financial datasets.

Winter Intern - Gestures Recognition for Human-Robot Interaction

TCS Research & Innovation [↗](#)

12/2019 - 01/2020

Kolkata, West Bengal

Tasks

- Build a monocular vision based robust gesture identification network for natural human-robot interaction.
- Prepared own datasets of commonly used gestures while interaction between human-human.
- Designed a system which recognizes gesture as an input and as per identified gesture command will be given to robot for its movement.

Guide: Dr. Chayan Sarkar - Scientist at TCS Research & Innovation

Summer Intern - Multi-Task Learning For Automated Essay Scoring

IIT BOMBAY [↗](#)

05/2019 - 07/2019

Powai, Mumbai

Tasks

- Designed a deep multi-task learning model for Automated Essay Scoring.
- Enhanced the baseline model with multi-task learning, using the attribute scores of the essays like language fluency, vocabulary, structure, organization, content, etc.
- The multi-task learning model performed well in all 8 prompts of the ASAP++ competition datasets.

Guide: Prof. Pushpak Bhattacharyya, Department of Computer Science and Engineering, IIT Bombay

TECHNICAL SKILLS

C++

Python

TensorFlow

PyTorch

Git and GitHub

Open Source

MATLAB

Ubuntu

Heroku

WEKA

ReactJS

React Native

JavaScript

Node.js

PROJECTS

Automated Essay Scoring (Btech Project) (07/2019 - 07/2020)

- This project aims to build a machine learning system for the automatic scoring of essays written by students. The basic idea is to build a multi-task learning system which can model the attributes like language fluency, vocabulary, structure, organization, content, etc. simultaneously along with calculating the overall score of the essay.

Online Feature Selection (08/2018 - 04/2019) [↗](#)

- To select a set of prominent features which best describe the data to improve the efficiency without degrading the accuracy of the model. Online feature selection strategies become popular to handle this problem in an online fashion.

Hardware Security (02/2019 - 05/2019) [↗](#)

- Ring oscillator (RO) based physical unclonable function (PUF) which is resilient against noise impacts and with the very high-temperature stability.

PUBLICATIONS

Multi-objective Cuckoo Search based Streaming Feature Selection for Multi-label Datasets (01/2021) [↗](#)

Description - In this paper, we develop a streaming feature selection method for multi-label data where the multiple labels are reduced to a lower-dimensional space. The similar labels are grouped together before performing the selection method to improve the selection quality and to make the model time efficient.

Online Feature Selection for Multi-label Classification in Multiobjective Optimization Framework (08/2019) [↗](#)

Description - It addresses the online feature selection problem in a multi-label classification framework where multi-labeled data with features arriving in an online fashion is considered as input.

CERTIFICATES

Full-Stack WebDevelopment with React Specialization [↗](#)

Machine Learning and it's Role in IoT Analytics (GIAN) [↗](#)

INTERESTS

Machine Learning

Deep Learning

Natural Language Processing

Computer Vision

Pattern Recognition

Web Development