NILABJA GHOSH

Pursuing MSc. Big Data Analytics

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github.com/nilabja-10

Nilabja has a balanced theoretical knowledge of machine learning and good programming and problem-solving skill. Interested in working as a Data Scientist.

ONGOING PROJECTS

Knowledge enhanced toxic text generation in an Indian setting, under the supervision of Dr. Sriparna Saha, Associate Professor in the Department of Computer Science and Engineering at IIT Patna.

Natural Language Processing

📅 August 2022 - Present

- Using different kind of knowledge graphs and bases to describe the toxic text and give a relative brief explanation of the input. A Bidirectional and Auto-Regressive Transformer (BART) which is denoising autoencoder built with a sequence-to-sequence model is used.

COMPLETED PROJECTS

Self Supervised learning in image classification: Introducing Barlow Twins under the supervision of Dr Soumitra Samanta, RKMVERI. ⵔ

Computer Vision

📅 February 2022 - June 2022

- Using the concept of Barlow Twins and self-supervised learning to demonstrate its better performance in the low-data regime.

Detection of Malaria from blood smears using CNN and a comparison between different loss optimization algorithms, under the supervision of Mrinmay Maharaj, RKMVERI. ⵔ

Computer Vision

📅 May 2022 - June 2022

- Training a CNN model to classify infected and non-infected blood smears, and in short comparison between the different loss optimisation algorithms.

A Case Study on Vaccination in India (EDA) under the supervision of Dr Sudeep Mallick, RKMVERI. ⵔ

Exploratory Data Analysis

📅 October 2021 - January 2022

- Manual data collection and a brief report on the Vaccination Drive in India. Also a critical analysis of people's sentiment towards vaccination in the different parts of India.

EDUCATION

M.Sc. in Big Data Analytics

RKMVERI

📅 Sept 2021 – Present   CGPA: 6.67

B.Sc. in Physics Hons.

St. Xavier's College, Kolkata

📅 Jul 2018 – July 2021   CGPA: 7.5

ISC

Holy Child School

📅 May 2016 – Jun 2018   91.75%

ICSE

Holy Child School

📅 May 2014 – Jun 2016   92.8%

TOOLS

Python   R   PowerBI   LaTeX   MySQL   OpenCV   Matplotlib   Pytorch   Scikit-Learn   NLTK   Numpy   Pandas

SKILLS

Machine learning   Deep learning   Computer Vision   Natural Language Processing

COURSEWORK

- Computational Data Science
- Machine Learning
- Deep Learning for CV
- Time Series & Survival Analysis
- Econometrics & Finance
- Natural Language Processing