MAHENDRA NANDI

Aspiring Data Scientist

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SKILLS

Python | R | MySql | Pyspark | Linux | LaTex | Version control

STRENGTHS

Time Management | Decision Making | Target Oriented | Hard Working | Leadership | Multitasking | Team Work | Adaptability

LIBRARIES

Pandas | Numpy | Plotly | Matplotlib | Seaborn | Scikit Learn | OpenCV | TensorFlow | Keras | PyTorch

ggplot2 | dplyr | tidyverse

LANGUAGES

Bengali: Native

English: Proficient

Hindi: professional

PROUD OF

INSPIRE scholarship

LOOKING FOR

Actively looking for works in the field of Optimization, NLP, Machine Learning and Deep Learning. Aiming to leverage technical, analytical problem solving skills and experience collaboratively in a challenging real world problem.

EXPERIENCE

Data Science Intern | Dr. Reddy's Laboratories (DRL)

February 2022 – June 2022 | Banjara Hills, Hyderabad, India

- NLP :: Build and deployed an algorithm for extraction of key information automatically from Documents and emails in a weekly basis to leverage identifying government opportunity for DRL. [Opportunity increased by 10%]
- ML :: Predicting next month MSP (market share percentage) of DRL for a particular molecule after analyzing the market scenario by predicting aggressiveness of a competitor in terms of entry price and by predicting the genericization percentage of it. [Company can decide its production rate and increase its profit by 5%]

Summer Internship | Indian Association for the Cultivation of Science (IACS)

August 2021 – January 2022 | Jadavpur, Kolkata, India

- Leveraging the Citation Graph for document level Scientific Information Extraction using Sci-BERT

EDUCATION

M.Sc in Data Science | Ramakrishna Mission Vivekananda Educational and Research Institute

June 2020 – June 2022 | Howrah, Kolkata, WB, India

- SGPA: 8.5 /10

B.Sc in Physics | University of Kalyani

August 2016 – August 2019 | Kalyani, Nadia, WB, India

- Percentage: 74.38%

10+2 | Sargachi Ramakrishna Mission High School

April 2014 – April 2016 | Sargachi, Murshidabad, WB, India

- Percentage: 91.20%

10th | Sargachi Ramakrishna Mission High School

January 2013 – February 2014 | Sargachi, Murshidabad, WB, India

- Percentage: 91.43%

PROJECTS

Survival Analysis on Employee attrition Data |

Dec 2021 – Jan 2022

- Analysis of the key factors of employees to provide an estimate of survival time using the Kepler-Meier estimator and the Cox proportional-hazards model. [Used python library - Lifelines]

Time Series Analysis: Stock Price Prediction on various NIFTY data |

Sep 2021 – Nov 2021

- Visualizations, analysis and forecast of the stock price according to the past nature of the NIFTY share market data using ARIMA for modeling conditional mean and GARCH for modeling conditional variance . [Used R libraries rugarch, zoo, astsa etc from CRAN package and Python library Statsmodel]

Captioning of an image automatically on Flicker8k data-set using Deep Learning |

Mar 2021 – Jun 2021

- Taking the feature vector of image from ResNet50 model using transfer learning to get the object and its state and then generating the caption out of it using LSTM model. [Used python library Keras]

Lucid way to understand and compare Optimization Techniques with Visualisation and Simulation |

Jun 2021 – Aug 2021

- Applied Armijo rule, Newton's method, Secant method, Golden Section and Fibonacci search with dynamic learning rate to find minimum of convex and non-convex function function
- compared SGD, Mini Batch Stochastic gradient descent, Momentum Based GD, Adam etc in a deep learning model for IMDB sentiment classification dataset. [Used TensorFlow library]

Computer Vision projects |

Mar 2021 – Jun 2021

- Image Filtering and Hybrid Images :: Illusion is created using a high pass filter which captures the prominent version of an image and another image after passing through low pass filter which is a blurry version. Adding the high and low frequencies together gives us the hybrid image. [Used python libraries OpenCV, Numpy]
- Detecting Lines and Circles in image :: After getting the feature points from an image using Canny edge detector we use Hough Transformation to vote for the parameters corresponding a line or circle and select the set of parameters having higher no of vote than a threshold value. [Used python libraries OpenCV, Numpy]
- Feature points detection and Key points matching between two stereo images :: Here the method used is Harris Corner Detection algorithm which is scale variant feature detector. To make it invariant of the scale of the 2 images we have also used SIFT algorithm.
- Camera Calibration and Fundamental Matrix Estimation :: Specifically we have estimated the camera projection matrix which maps 3D world to image coordinates and then fundamental matrix (with RANSAC algorithm by point correspondences) which relates point in one scene to epipolar lines in another.

Exploratory Data Analysis (EDA)

Nov 2020 – Feb 2021

- EDA and Visualization on Red Wine Quality dataset [Used R libraries Ggplot2, dplyr]
- EDA and Visualization on Goodreads-books dataset [Used python libraries Matplotlib, Seaborn and R libraries Ggplot2, dplyr]