

Sourav Bhattacharjee

Persuing MSc in Data Science at RKMVERI || Mathematics graduate from Calcutta University

A quick learner and a hardworking individual with strong interest in building Machine Learning models for real world problems. Relevant skills include machine learning, optimisation techniques, problem solving and creative thinking.



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EDUCATION

M.Sc. Big Data Analytics (Data Science)

Ramakrishna Mission Vivekananda Educational and Research Institute

09/2020 - Present

8.33

Courses

- Machine Learning
- Inferential Statistics
- Linear Algebra
- Probability Theory
- Computer Vision
- Optimization Algorithms
- Multivariate Statistics
- Natural Language Processing

B.Sc. Mathematics (Hons.)

Scottish Church College, Calcutta University

07/2017 - 09/2020

79.37%

Higher Secondary (XII-th)

Dum Dum Kishore Bharati High School

07/2014 - 07/2016

88%

Madhyamik (X-th)

Dum Dum Kishore Bharati High School

07/2012 - 07/2014

90%

INTERSHIPS

Summer Research Intern

Indian Statistical Institute, Kolkata

07/2021 - Present

Kolkata

Task

- Working on 3D Object Reconstruction from 2D Multiview-Images using GAN

Supervisor: Prof. Bhabatosh Chanda, CVPR Unit, ISI, Kolkata

SKILLS

Data Analysis

Data Visualization

Python

R

MySQL

PySpark

MS Excel

Machine Learning

Time Series Analysis

Deep Learning

PyTorch

OpenCV

Scikit-Learn

Pandas

NumPy

Matplotlib

LaTeX

PowePoint

ggplot2

PROJECTS

3D MRI Image Analysis for Alzheimer's Disease Prediction Using Transfer Learning (04/2021 - 07/2021)

- Devised a 3D MRI image preprocessing procedure and successfully preprocessed ADNI database MRIs for the image classification task. Implemented Transfer Learning ResNet 3D model to the 3D image dataset and Inception V3 model to the 2D image dataset extracted from the 3D images. Analyzed both results for better performance.

Time Series Modeling of State-wise Monthly SO2 Emission in India & Its Relation With State-wise GDP (09/2021 - 10/2021)

- Performed Time Series Analysis on state-wise monthly SO2 emission data from 2005 to 2019 and fitted appropriate Seasonal ARIMA model to all the 29 states.
- Further investigated the cointegration and causality between SO2 emission and state-wise yearly GDP from 2005-2019.

A Comparative Study Of Various Optimizers On Flower Image Classification Task Using CNN (09/2021 - 10/2021)

- Analyzed and compared the performance of SGD, SGD with Momentum, Adagrad, RMSProp, and Adam optimizer with various learning rates & parameters on a flower classification task using CNN.

Classification Using LDA and Various Other Data Engineering on Iris Dataset in R (06/2021 - 07/2021)

- Applied Linear Discriminant Analysis to perform classification and data visualization on Iris dataset in R.

Preparing a vector map of university campus using two way ANOVA model (06/2021 - 07/2021)

- Prepared a vector map of the university campus from multiple overlapping screenshot images of the campus from Google Map by stitching and then exact coordiantes of landmarks were determined by two way ANOVA model.

LANGUAGES

English

Full Professional Proficiency

Bengali

Full Professional Proficiency

INTERESTS

Computer Vision

CNN

GAN

EDA