



Deepmalya Dutta

DATA SCIENCE STUDENT

Contact

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Chennai, Tamil Nadu

Skills

Tools: Python, R, SQL, C, Command Line, Adobe Photoshop CC
Exposure to: Keras, Scikit-learn, Numpy, Seaborn, Ggplot2, Pandas, Matplotlib, R-shiny, Stats.

Online Courses

Kaggle Courses:
Feature Engineering, Data Cleaning, Pandas, Data Visualisation, Introduction to SQL

Extras

Treasure Hunt
Winner of various treasure hunts across several fests
2019 - 2022

Student Volunteer
National Service Scheme
2019 - 2022

Hobbies

Reading Novels
Discussing Philosophy
Table Tennis

Profile

Keenly interested in Deep Learning, Machine Learning, Statistical Analysis, Problem Solving and their applications in real-world scenarios. A fast learner with a healthy background in mathematics, computer science, and statistics who is eager to work on projects for companies and gain real-world experience.

Education

Chennai Mathematical Institute Data Science, 2022 - Present Key Courses - Deep Learning, Machine Learning, Data Structures, Visualization, RDBMS, Python, Probability and Stats	Master of Science CGPA: N/A
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St. Xavier's College, Kolkata Mathematics, 2019 - 2022 Key Courses - Analysis, Linear Algebra, Probability, Statistics, Topology, Calculus	Bachelor of Science CGPA: 8.2/10.00
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Projects

Human Action Recognition using CNN & Transfer Learning
December 2022 | [Link](#)

Tools used: [Keras](#), [Scikit-Learn](#), [Python](#), [Matplotlib](#), [Numpy](#)

In the project, I have performed image classification of human actions using CNNs. Initially, I created a few custom CNNs and fit the training data to the neural networks.

Next, I used transfer learning to increase the accuracy. I used EfficientNet-b0 as the starting point of our new model. I tuned the hyperparameters of this model a bit and added two more dense layers.

Stock Prices Prediction using RNN & LSTM

December 2022 | [Link](#)

Tools used: [Keras](#), [Matplotlib](#), [Pandas](#), [Numpy](#), [Seaborn](#), [Python](#)

In this project, I have performed stock price prediction using RNNs. I tried to predict the future Volume Weighted Average Price for the stocks, Reliance, TCS, HDFC & Bajaj Auto. I have used simple RNN and LSTM to predict the stock price for the next one and 10 days, using the previous few days' stock prices. Finally, I tuned to hyperparameters and managed to achieve high accuracy on the test data.

Financial Literacy of 18 to 35-year-olds

August 2022 - Ongoing | [Link](#)

Tools used: [Scikit-Learn](#), [Pandas](#), [Numpy](#), [Matplotlib](#), [Python](#)

In this project, we are discussing the financial literacy of 18 to 35-year-olds across India. Our goal is to analyze the data collected through a survey with different statistical tools and measure their financial literacy. We used the INFE toolkit to score the answers and finally implemented a machine learning model, a combination of Logistic Regression, and Decision Trees and used Bagging Classifiers to predict and classify the user's financial literacy.

Credit Card Customers

Chennai Mathematical Institute | October 2022 - November 2022 | [Link](#)

Tools used: [GGplot2](#), [R-shiny](#), [R](#)

In this project, we explore the trend and usage of credit card users among different demographics. We use visualization techniques in R to find patterns in the credit card usage dataset. Following this, we attempt to find relations between Credit Card Usage, Utilization, Revolving Balance, and other variables. Finally, we developed an R-shiny dashboard to address the above-posed questions.

Deterministic Epidemic Modelling - HIV/AIDS

St. Xavier's College, Kolkata | Sep 2021 - Dec 2021 | [Link](#)

Tools used: [Matplotlib](#), [Python](#)

In this paper, we have discussed SIS, SIR, SEIR, and SIRS model and analyzed the critical mechanics behind each model and how they correlate with real-world epidemics. Finally, we made estimates of potential outbreak casualties for new initial conditions and modern outbreak controls.

Positions of Responsibility

- **Placement Coordinator**, Chennai Mathematical Institute, '24
 - **Organizing Committee**, Analytica '21
St. Xavier's College, Kolkata, Graphics Designing
 - **PR Team**, Analytica '19, St. Xavier's College, Kolkata
PR Representative
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