Deepmalya Dutta

DATA SCIENCE STUDENT

Contact

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LinkedIn
GitHub
Website
Chennai, Tamil Nadu

Skills

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

Online Courses

Kaggle Courses:
Python, 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
Drinking Coffee
Table Tennis

Profile

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

Education

Chennai Mathematical Institute **Master of Science**
Data Science, 2022 - Present   CGPA: N/A
Key Courses - Machine Learning, Data Structures, Visualization, RDBMS, Python, Probability and Stats

St. Xavier's College, Kolkata **Bachelor of Science**
Mathematics, 2019 - 2022   CGPA: 8.2/10.00
Key Courses - Analysis, Linear Algebra, Probability, Statistics, Topology, Calculus

Projects

Footwear Classification using MLP
December 2022 | Link
In this project, I have performed image classification of footwear using a multilayer perceptron model. The DataSet used in this project was obtained from Kaggle, Shoe vs Sandal vs Boot Image Dataset. It contains around 15,000 images with a resolution of 136x102 pixels in an RGB color model.
Initially, I implemented a model with 3 hidden layers and got over 94% accuracy. Finally, I tried a Randomized Search to find the best hyperparameters. With that, I got an accuracy of 95.77% on the test data.

Financial Literacy of 18 to 35-year-olds
August 2022 - Ongoing | Link
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 to predict and classify the user's financial literacy.

Credit Card Customers
Chennai Mathematical Institute | October 2022 - November 2022 | [Link](#)
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 develop 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](#)
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