Shreya Datta
MSc. Data Science

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[Portfolio](#) | [LinkedIn](#)

Summary

I am pursuing an MSc in Data Science with a strong passion for using data to drive insights and innovation. With two valuable internship experiences, I am enthusiastic about expanding my skills and making impactful contributions to the dynamic field of data science.

Personal Projects

NLP Fake News Classification Using LSTM, Bidirectional LSTM, and GRU

- This project classifies fake news using LSTM, Bidirectional LSTM, and GRU, with Bidirectional LSTM achieving the highest test accuracy. Preprocessing with tokenization and sequencing improved model performance by ensuring structured input.

Time Series Forecasting of Microsoft Stock Price Using Simple RNN and Bidirectional LSTM

- This project forecasts Microsoft's stock price using Simple RNN and Bidirectional LSTM. Simple RNN outperforms Bidirectional LSTM with lower MSE and MAE, indicating better accuracy.

Book Recommendation System Using Correlation and K-Nearest Neighbors (KNN)

- This project builds a book recommendation system using Correlation-based and KNN approaches. Both methods effectively provided personalized book recommendations, with KNN performing better for large datasets and correlation-based methods being faster for smaller ones.

Lung and Colon Cancer Detection Using Convolutional Neural Networks with InceptionV3 and Data Augmentation

- This project used medical imaging data to classify lung and colon cancer with Convolutional Neural Networks (CNNs) using InceptionV3 and data augmentation. The model achieved 80% test accuracy, demonstrating the effectiveness of CNNs and transfer learning in medical diagnostics.

Skills

Python, Machine Learning, Statistics, Deep Learning, Natural Language Processing, Recommendation System, Microsoft PowerPoint, Microsoft PowerBI, Data Analysis, Data Visualization, Google Docs, SQL.

Internship Experience

DevSkillHub Training and Consultancy   June 2024 – Aug 2024
Python and Machine Learning Intern

- Completed an online internship with DekSkillHub Training and Consultancy as a Python and Machine Learning Intern, performing COVID-19 analysis. Gained hands-on experience and strengthened skills in data analysis and machine learning techniques.

Rugas Technologies Pvt. Ltd.   Oct 2023 – Nov 2023
Data Analytics and Machine Learning Intern

- Completed dynamic internship at Rugas, delivering impactful data analytics and machine learning projects. Led a machine learning initiative to optimize nurse shift allocation, achieving 95% accuracy with Random Forest, leveraging MongoDB Atlas and advanced PCA for feature selection.

MedTourEasy Pvt. Ltd.   Oct 2023 – Oct 2023
Data Analytics Trainee

- Led an online internship at Med Tour Easy Pvt Ltd, analyzing lifespan disparities between right- and left-handers using Python, pandas, matplotlib, and seaborn. Delivered milestones on schedule, earning a certificate for valuable contributions to demographic research on handedness and mortality trends.

Certifications

- Data Science and Business Analytics – Boston Institute of Analytics
- Google Data Analytics Certification – Coursera
- Advanced Google Data Analytics Certification – Coursera

Education

Master of Science Data Science	2023-2025
Kalasalingam Academy of Research and Education (Kalasalingam University), Tamil Nadu	
Bachelor of Pharmacy	2019-2023
West Bengal University of Technology (Makaut University), Kolkata – 8.57 CGPA (Aggregate)	
High School Diploma	2017-2019
Kalyani Public School, Kolkata – 85.32 % (Aggregate)	