

SUBHANGI DEY

Kolkata , India

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Technical Skills

Tools and Technologies: Python, SQL, Power BI, C++, MS Excel

Methods and Algorithms: Linear and Logistic Regression, SVM, Random Forest, Gradient Boosting, Clustering

Relevant Coursework: Machine Learning, Time Series Analysis, Panel Data Analysis, Logit and Probit Models, Econometrics, Game Theory

Projects

Stock Prediction Using Reddit Sentiment Analysis

2024

- Developed a machine learning pipeline to predict stock price movements by analyzing user-generated content from Reddit.
- Implemented web scraping with PRAW to extract data from finance-focused subreddits, followed by sentiment analysis using NLP techniques.
- Built and evaluated machine learning models (Logistic Regression, Naive Bayes, SVM) to forecast stock trends, achieving insights into market movements.

Gender Disparity at Life Expectancy at Birth

2023-2024

- Conducted an in-depth analysis of gender-based life expectancy differences across 16 Indian states, examining data trends from 1996 to 2020 and identifying socio-economic factors contributing to these disparities.
- Applied quantitative measures, including the Sopher Disparity Index, to evaluate life expectancy variations. Utilized statistical methodologies to calculate shortfalls from maximum life expectancy values and assess gender advantages in specific states
- Formulated actionable policy suggestions to address healthcare and education inequalities, emphasizing the need for improved public sector services, female education, and maternal healthcare to enhance life expectancy rates for women in disadvantaged states.

Factors Affecting The Stream Choices Of Indian Students

2021-2022

- Conducted a research project under Prof. Tamal Krishna Kayal at Jadavpur University, focusing on identifying key factors influencing stream selection.
- Designed and implemented a questionnaire to collect data, aiming to formulate and test hypotheses related to stream selection using statistical analysis.
- Applied logit and probit models to analyze the data and compared the results with existing literature to validate the study's conclusions. We concluded that factors like gender, peer influence, family and income plays a positive role in affecting the choices of students.

Education

Jadavpur University

November 2022 – June 2024

Master of Economics

Kolkata, West Bengal

Jadavpur University

September 2019 – May 2022

Bachelor of Economics

Kolkata, West Bengal

Courses and Certificates

Master SQL for Data Science | by UDEMY

September 2024

- Skilled in creating and managing databases using PostgreSQL, including tasks like installing PostgreSQL, creating tables, and executing advanced SQL queries.
- Expertise in data manipulation using SQL, including filtering, aggregation, subqueries, table joins, window functions, and implementing UNION, UNION ALL, and EXCEPT clauses for detailed data analysis.

Data Analysis With Pandas And Pythons | by UDEMY

August 2024

- Acquired a solid understanding of data manipulation techniques, including data types, functions, series, attributes, and dictionaries.
- Proficient in filtering, extracting, and merging data, with expertise in multi-indexing, GroupBy operations, and data aggregation to enhance data analysis processes.