MD SHAHRUKH

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EDUCATION

INDIAN STATISTICAL INSTITUTE

Postgraduate Diploma in Applied Statistics   Aug 2022 - Feb 2024

Major in Data Analytics and Official Statistics

SILLI COLLEGE SILLI, RANCHI UNIVERSITY   *Silli, Ranchi*

Bachelor Of Science (Hons.)   Jul 2018 - Oct 2021

Major in Mathematics

CGPA: 8.63

SHIEKHPARA ABDUR RAHAMAN MEMORIAL POLYTECHNIC   *Sheikhpara, Murshidabad*

Diploma in Engineering   Aug 2015 - Jul 2018

Medical Laboratory Technology (Equivalent to Biomedical Engineering)

CGPA: 8.2

PRACTICAL EXPERIENCE

NAVIGATING INFLATION'S IMPACT ON THE MIDDLE CLASS

(Supervisor: Prof. Raju Maiti, Indian Statistical Institute, Kolkata)   Dec 2023 - Present

- This ongoing project aims to analyze the effects of inflation on society, specifically focusing on *middle-class families* with income ranging from 30k to 45k. The primary objectives include the development of effective *money-saving strategies*, identification of *optimal investment sectors*, recommendations for essential *health insurance coverage*, *projection of potential rent fluctuations* after five years, and *forecasting expected interest rates* offered by banks. Utilizing various datasets and employing *statistical analysis* along with *time series analysis*, the ultimate goal is to empower middle-class earners with strategies that promote resilience against inflationary pressures.

ANALYZING THE GROUNDWATER CRISIS IN WEST BENGAL, INDIA

(Supervisor: Dr. Debasis Sengupta, Indian Statistical Institute, Kolkata)   Nov 2023 – Present

- This project aims to investigate the extent of the groundwater crisis in West Bengal, India. With over 10 years of data, the main objective is to predict how the *upcoming monsoon season will impact groundwater levels*. By utilizing comprehensive data analysis techniques such as *machine learning* and *statistical analysis*, the project seeks to provide valuable insights for understanding and addressing the groundwater crisis in West Bengal.

HOUSE PRICE PREDICTION **(Self Project)**   Jun 2023

- Developed a house price prediction model through *regression analysis* in *Python* leveraging *NumPy, Pandas*, *Matplotlib* etc. This project involved several key stages, including data cleaning, *feature engineering*, *one-hot encoding*, outlier detection, *dimensionality reduction,* and implementing *GridSearchCV* techniques. Through these steps, the aim was to select the most effective *regression algorithm* that delivered high accuracy in predicting house prices.

CELEBRITY IMAGE CLASSIFICATION **(Self Project)**   Jul 2023

- In this project, I identified an imbalanced dataset and implemented solutions using *Python*, using libraries such as *OpenCV*. Additionally, I applied diverse classifiers including *Logistic Regression*, *Random Forests*, and *SVM classifiers*. These combined efforts led to a commendable level of accuracy in the *classification* process.

ADDITIONAL

Skills: Machine Learning, Data Analysis, Data Visualization, Feature Engineering, Statistical Analysis, Time Series Analysis.

Technical Skills: Excel, Python, Pandas, NumPy, Matplotlib, R, R Studio, SQL, Power BI, Jupyter Notebook.

Languages: English; Hindi: Bengali.

Achievement: I was ranked *10th* in the Indian Statistical Institute's Postgraduate Diploma in Applied Statistics entrance examination.