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**](https://github.com/Pathaan/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**](https://github.com/Pathaan/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.