MD ZEHAN ALAM

Data Scientist

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SUMMARY

Aspiring Data Scientist with a strong foundation in mathematics, statistics and programming. Leveraging soft skills honed through freelancing, adept at blending theoretical knowledge with practical application for effective data science and ML implementation. Proficient in end-to-end project execution, from data collection and analysis to model building and cloud deployment. Eager to specialize in Deep Learning and Computer Vision while contributing to innovative AI research initiatives.

PROJECTS

On Practitioner Implementation of Variance Gamma Option Pricing with Subprime Crisis Empirics

MATLAB │ Option Pricing │ Data Analysis │ Academic Thesis Project
- Introduced the Practitioner Variance Gamma Method for option pricing, applying practitioner approach to the Variance Gamma method. Assessed four prediction models on a 10,000-entry dataset with MATLAB across different Moneyness levels. Performed statistical analysis and RMSE visualization to evaluate performance against conventional methods.

Predicting MCM's Base Salary

Python │ Statistical Analysis │ ML │ Regression │ Flask
- Utilized data from data.gov in JSON format, comprising 10,291 entries. Conducted statistical analysis to select key features. Identified optimal regression model and parameters. Implemented the model using Flask and web design.

Smartphone Specifications Scraping from GSM Arena

Python │ BeautifulSoap4 │ Web Scraping │ EDA
- Utilized Python libraries to scrape specifications from GSMarena and reviews from inner links, employing proxies to circumvent IP bans.

Smartphone Specifications Data Cleaning & EDA

Python │ Pandas │ Matplotlib │ Seaborn │ Regex
- Leveraged regex to clean and parse 1020 smartphone data, extracting specific values like RAM, ROM, OS, and Processor specs into separate columns for analysis.

Retail Store Sales Prediction using Time Series Models

Python │ Pandas │ Matplotlib │ Seaborn │ ARIMA │ SARIMAX │ Prophet
- Predicted retail store sales utilizing three distinct time series forecasting models: ARIMA, SARIMA, and Prophet.

See More Projects

WORK HISTORY

Wordpress Web Designer   Jan 21 - Dec 23
Fiverr, Upwork, C&IStudio
- Worked under few agencies for 3+ years as an expert in Wordpress.
- Completed 70+ projects that impacted business/sales of clients positively.
- Enhanced **soft skills** like communication, collaboration, time management, meeting deadlines, working effectively under pressure, project management and problem solving.

SKILLS AND EXPERTISE

Data Analysis and ML: Data Scraping, Database Management, Data Wrangling, Statistical Analysis, Exploratory Data Analysis, Data Visualization, Supervised and Unsupervised Machine Learning (Feature Engineering, Model Evaluation and Validation, Hyperparameter Tuning, Cross-Validation), Time Series Analysis
Programming Languages: Python, SQL, HTML, CSS, JS, Flask, MATLAB, Fortran, C++, Java
Tools and Technologies: Excel, Tableau, GitHub, Microsoft Office
Mathematics: Calculus, Linear Algebra, Differential Equations, Discrete Mathematics, Stochastic Calculus, Optimization, Statistics Fundamentals
Languages: English, Bangla

EDUCATION

B.Sc. in Mathematics

University of Dhaka
- CGPA - 3.47
- Passing Year – Feb, 2024

SSC'15 , HSC'17

Comilla Board
- GPA - 5

CERTIFICATIONS

Data Analyst Professional   **May 2023**
Datacamp

Google IT Support Professional Certificate   **May 2020**
Google