

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

- Developed a new model, the Practitioner Variance Gamma Method, for option pricing using the practitioner approach to the Variance Gamma method.
- Evaluated four option price prediction models using MATLAB on a dataset of 10,000 entries across various Moneyness levels.
- Conducted statistical analysis and visualized RMSE to assess the performance compared to traditional methods.

Car Price Prediction

Python | ML | Regression | Streamlit

- Analyzed regression algorithms, selecting the best for predicting car prices and implemented the model with Streamlit for user interaction.

Smartphone Specifications Scraping from GSM Arena

Python | BeautifulSoup4 | 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 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		CERTIFICATIONS	
B.Sc. in Mathematics University of Dhaka <ul style="list-style-type: none">CGPA - 3.47Passing Year – Feb, 2024 SSC'15 , HSC'17 Comilla Board <ul style="list-style-type: none">GPA - 5		<u>Data Analyst Professional</u> Datacamp <u>Google IT Support Professional Certificate</u> Google	
		May 2023 May 2020	
