

MD ZEHAN ALAM

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SUMMARY

Math graduate proficient in data science tools, from collecting, organizing, and analyzing data to building machine learning and deep learning models, solving real-world business and financial problems.

EDUCATION

University of Dhaka

B.Sc. in Mathematics, CGPA: 3.47/4.00

Jan 2018 - Feb 2024

Comilla Victoria Govt. College

HSC, Comilla Board, GPA: 5.00/5.00

2017

Comilla Zilla School

SSC, Comilla Board, GPA: 5.00/5.00

2015

SKILLS AND EXPERTISE

Programming Languages: Python SQL MATLAB Fortran C++ (basic) Java (basic)

Hard Skills: Data Analysis (Excel, numpy, pandas, postgresql) Data Visualization (matplotlib, seaborn, plotly, Tableau) Statistical Analysis (scipy, pingouin) Time Series Analysis (statsmodels, prophet)

Machine Learning (scikitlearn, regression, classification, clustering), Deep Learning (tensorflow, keras, opencv)

Web Scraping (beautifulsoap4) Model Deployment (HTML, CSS, Flask) Technical Report Writing (LaTeX, Word, Powerpoint) Other Tools (Github, Wordpress)

Soft Skills: Communication (English, Bangla) Problem Solving Teamwork

PROJECTS

Data Analysis - Product Sales Strategy A/B Testing [✉](#)

- Conducted A/B testing on sales data to optimize strategies for revenue growth. Utilized Python, Pandas, Matplotlib, Seaborn on 15,000 entries. Presentation file prepared for stakeholders.

Tableau Dashboard: Employee KPI Analysis [✉](#)

- Built a Tableau dashboard with data from 1480 employees across 38 columns. It showcases key performance indicators (KPIs) and filters for HR analytics, aiding data-driven decision-making.

Smartphone Specifications Data Cleaning & EDA [✉](#)

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

PostgreSQL - European Football League Data Analysis [✉](#)

- Collected and transformed data from 5 tables with 1000+ records for PostgreSQL compatibility. Utilized advanced SQL methods to analyze and extract insights, including top teams and players.

See More Projects [✉](#)

CERTIFICATIONS/AWARDS

- **Data Scientist Professional Certification** [↗](#), by Datacamp, Issued on Aug 2024
- **Data Analyst Professional Certification** [↗](#), by Datacamp, Issued on May 2023
- **Google IT Support Professional Certificate** [↗](#), by Google, Issued on May 2020
- Higher Secondary Board Scholarship for Undergraduate students/ Fellowships

RESEARCH EXPERIENCE

On Practitioner Implementation of Variance Gamma Option Pricing with Subprime Crisis Empirics [↗](#)
Undergraduate Thesis Project Supervised by Dr. Md. Sharif Ullah Mozumder

- Introduced the Practitioner Variance Gamma Method for option pricing.
- 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.

EXTRACURRICULAR ACTIVITIES

Wordpress Web Designer

Jan 2021 - Dec 2023

- Worked as a freelancer with agencies like C&I Studio and Foundergate, and on Fiverr [↗](#) and Upwork [↗](#), completing over 60 projects.
- Generated leads, marketed myself, managed projects, and built websites to help brands grow. This experience, initially to support myself during undergrad, taught me how to run a business, handle clients, and balance work-life dynamics.

REFERENCES

Dr. Md. Sharif Ullah Mozumder

Professor, Department of Mathematics, University of Dhaka

Email: sharif_math2000@yahoo.com [↗](#)