SAMIUL HOSSAIN SAJAL

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🌐 https://github.com/SAMIULSAJAL

SKILLS

- Python
- R, Julia
- Github, SQL, Latex
- Linux OS, Mac OS
- Statistical Data analysis
- Photography
- Adobe Lightroom
- Adobe Premier Pro, PS
- MS Excel, Google Sheets
- MS Power BI, MS Word

LANGUAGES

- Bangla (Native)
- English (Proficient User-C1)
- German (Beginner-A1)

HOBBIES

- Photography
- Videography
- Badminton

ABOUT ME

Aspiring data analyst with a strong foundation in physics, programming, and statistical methods. Experienced in handling real-world datasets, building dashboards, and developing business intelligence solutions.

PROJECTS

Three-Body Simulation in Julia
- Modeled Saturn, Janus & Epimetheus using the Runge-Kutta method
- Simulated orbital exchange to study collision avoidance

The European Social Survey (ESS) data analysis
- Trends between the internet/news consumption and climate change opinion.
- Correlation between internet usage time and the user's age.

Arctic ice maps
- Analyzed 20 years of satellite data on Arctic ice.
- Visualized long-term trends in ice concentration loss.

Business Data Modeling and Analysis
- Data modeling for Transactions, Sales, Purchase, Inventory Stock, Expenses, Revenue
- Realtime Dashboard, Supplier and Dealer profiles.

EDUCATION

M.Sc. in Physics – *University of Cologne, Germany* *(Oct,2022-Present)*

M.Sc. in Physics – *SUST, Bangladesh* *(June,2019-Nov,2021)*

B.Sc. in Physics – *SUST, Bangladesh* *(Mar,2015-Apr,2019)*

RESEARCH EXPERIENCE

Graduate Thesis Work – *NLO Research Laboratory, SUST* *(10.2019-11.2021)*
- Utilized HPC-driven Molecular Dynamics (MD) simulations with ReaxFF to model Aluminum Nanoparticle (ANP) formation in Pulsed Laser Ablation (PLAL).
- Demonstrated the influence of temperature decrease rate on ANPs growth and structure.

TECHNICAL TRAINING

Intensive Week: Coding – *University of Cologne* *(June,2025)*
- Project-based Julia course on scientific programming and visualization.

Python for Everybody – *University of Michigan | Coursera* *(Feb,2025)*
- Structured program: web scraping, databases, and APIs in Python.

Google Data Analytics Professional – *Google | Coursera* *(Sept,2022)*
- Developed hands-on skills in data cleaning, analysis, visualization, and using SQL and R for real-world business insights.

Scientific Programming with Python – *University of Cologne* *(July,2023)*
- Learned core Python techniques for modeling, simulation, visualization and scientific data handling.

Every number tells a story – *ProfessionalCenters der Uni. Cologne* *(May,2023)*
- Developed skills in summarizing & interpreting survey data using statistical techniques in R.

PROFESSIONAL EXPERIENCE

Restaurent Employee – *Atawich* *(Jan,2024-Present)*

Sortation Associate – *Amazon Deutschland Services GmbH* *(June,2023-Sept,2023)*

AWARDS AND HONORS

National Science and Technology (NST) Fellowship 2020-21 *(2021)*

Honorable Photographer - "Exceed 2018-: SUST CEE Festival" *(2018)*

2nd runerup - BNMPC Science Fair 2012 *(2012)*