

SAMIUL HOSSAIN SAJAL

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, 2023-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 - BNMPSC Science Fair 2012 (2012)



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https://github.com/SAMIULSAJAL



https://www.researchgate.net/profile/Samiul-Hossain-Sajal

SKILLS

Python, R, Julia ●●●●

MS Excel, Google Sheets ●●●●

MS Power BI, MS Word ●●●●

Statistical Data analysis ●●●●

SQL ●●●●

Mac OS, Linux OS ●●●●

Latex ●●●●

Photography ●●●●

LANGUAGES

- Bangla (Native)
- English (Advanced)
- German (Beginner)

HOBBIES

- Photography
- Videography
- Badminton