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

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

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.

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)*

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 and interpreting survey data using statistical techniques in R.

RESEARCH EXPERIENCE

Graduate Thesis Work – *NLO Research Laboratory, SUST* *(10.2019-11.2021)*
- Investigation of the synthesis and oxidation of ANPs in an aqueous environment during the PLAL technique.
- Observe the formation rate, crystal structure, size, and growth rate of the ANPs.

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)*

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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