

MD MUSHFIQUR RAHMAN

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EDUCATION

University of Mississippi Medical Center 2024-
PhD (Department of Data Science)
First year student (Currently enrolled)

University of Dhaka 2018-2023
BS (Department of Statistics)
CGPA 3.81 on a scale of 4. (3.89 on WES Evaluation)

EXPERIENCE

- International Center for Diarrhoeal Disease Research, Bangladesh** October 2023 - Present
(icddr,b)
Data Management Assistant
- Assisted in organizing and managing large data sets to ensure accurate and efficient data processing.
 - Utilized data management software and tools like STATA and SPSS to store and analyze raw data.
 - Assisted in several interim analyses of clinical trials to find the efficacy of multiple new drugs.
 - Performed statistical analysis with R.
 - Analyzing Diarrheal Disease Surveillance System (DDSS) at the Dhaka Hospital.
 - Participating in a 'Phase III' double-blinded randomized controlled trial using a probiotic to monitor weight gain for moderate and severely stunted children between 2 months up to 1 year of age.
 - Creating a Shiny app designed to showcase and analyze various aspects of a study.
- Save the Children in Bangladesh** May 2023 - July 2023
Research Assistant
- Assisted in hypothesis testing based on the project requirements.
 - Performed analysis to measure the maternal and newborn care indicators such as ANC visits during pregnancy, essential newborn care, place and mode of delivery, postpartum family planning, etc.
 - Performed multivariate analysis to see the factors that contribute to receiving better ANC utilization, mode of delivery, and essential newborn care practices.
 - Created graphs and charts for the survey findings.
 - Assisted in finding the effectiveness of the intervention taken during the project using the LiST (The Lives Saved Tool).
 - Assisted in the data management and creation of a data dictionary for the survey data.
- Statistical Research Consultancy Bangladesh (SRCBD)** November 2020 - July 2021
Trainee Data Analyst (Internship)
- Aided in the course curriculum design in R language.
 - Supported in the coding portion of the course.
 - Performed data visualization in R using ggplot2 package.

- Performed hypothesis testing in R.

DATA ANALYTICS SKILLS

Programming Languages	R, STATA, SPSS, SAS, MATLAB, Python, PowerBI
R Packages	ggplot2, dplyr , tidyr, caret, tidymodels, shinyapp, Quarto, survival, maptools
Software & Tools	Word, LaTeX, Excel, PowerPoint

RESEARCH & PUBLICATIONS

- Hassan, Md. Mehedi and Mamun Billah, Md. Al and **Rahman, Md. Mushfiqur** and Zaman, Sadika and Hasan Shakil, Md. Mehadi and Angon, Jarif Huda. **Early Predictive Analytics in Healthcare for Diabetes Prediction Using Machine Learning Approach**. 2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT). 2021, Pages 01-05. DOI: 10.1109/ICCCNT51525.2021.9579799.
- Hassan, Md. Mehedi and Hassan, Md. Mahedi and Akter, Laboni and **Rahman, Md. Mushfiqur** and Zaman, Sadika and Khan Md. Hasib and Jahan, Nusrat and Smrity, Raisun Nasa and Farhana, Jerin and M. Raihan and Mollick, Swarnali. **Efficient Prediction of Water Quality Index (WQI) Using Machine Learning Algorithms**. 2021, volume 1, pages 86-97. DOI: 10.2991/hcis.k.211203.001.
- Hassan, Md.Mehedi and Raihan, M. and Khan, Md. Hasanul Banna and Dhali, Tutul and **Rahman, Md. Mushfiqur** and Sneha, Zarmina Huda. **A Hybrid Machine Learning Approach to Predict the Risk of Having Stroke**. 2022, pages 460-465. DOI: 10.1145/3542954.3543020.
- Hassan, Md. Mehedi and Zaman, Sadika and **Rahman, Md. Mushfiqur** and Bairagi, Anupam Kumar and El-Shafai, Walid and Rathore, Rajkumar Singh and Gupta, Deepak.**Efficient prediction of coronary artery disease using machine learning algorithms with feature selection techniques**. *Computers and Electrical Engineering*, **115**, 109130, 2024. ISSN 0045-7906. <https://doi.org/10.1016/j.compeleceng.2024.109130>.

PROJECT & REPORT

- Socio-Demographic Factors Affecting Maternal Health Care in Bangladesh. 2020
- Early Childhood Development: Variation within Age at Marriage and Birth of Children among Women in Bangladesh (BS Final year Project). 2022

ACHIEVEMENTS

Winner , Data analysis competition QMH Statistics Club, Department of Statistics, University of Dhaka.	2020
Best Paper Award Human-Centric Intelligent System.	2022
Government Honours Scholarship Directorate of Secondary and Higher Education, People's Republic of Bangladesh	2024