



WORK EXPERIENCES

6. Data Consultant; Accelerator Lab, UNDP Bangladesh

Sep 2024 – Ongoing

- a. Produce data analytics related to waste management and biodiversity conservation in small islands:**
 - Conduct data collection, analysis, and interpretation to identify patterns, trends, and insights on waste generation, composition, and disposal practices in target communities.
 - Conduct comprehensive research on biodiversity conservation efforts in small islands by engaging local authorities, conservation NGOs, and research institutions to access relevant data and resources.
 - Collaborate with interdisciplinary teams to identify opportunities for optimization and innovation in waste management processes through data-driven insights.
 - Create visualizations, reports, and presentations to communicate findings and recommendations to stakeholders, including policymakers, NGOs, community leaders, and project beneficiaries.
 - Contribute to the development of strategies and policies informed by evidence-based research and data analysis to recommend interventions and policies to enhance waste reduction, recycling, resource recovery, plastic pollution and biodiversity conservation efforts.
- b. Generate data analytics for the empowerment of women in small islands:**
 - Conduct data collection, analysis, and interpretation to identify patterns, trends, and insights to assess the socio-economic impact of mini garment production on women's empowerment and economic inclusion in small islands.
 - Analyze market trends, consumer preferences, and supply chain dynamics relevant to mini garment enterprises.
 - Develop a framework for evaluating the effectiveness of women empowerment programs and initiatives in the garment industry.
 - Create visualizations, reports, and presentations to communicate findings and recommendations to stakeholders, including policymakers, NGOs, community leaders, and project beneficiaries.
 - Contribute to the development of strategies and policies informed by evidence-based research and data analysis to recommend interventions and policies to enhance women empowerment in the small islands.
- c. Create data analytics for youth employment in small islands:**
 - Conduct data collection, analysis, and interpretation to identify patterns, trends, and insights to evaluate the factors influencing youth unemployment rates and underemployment in small island communities.
 - Identify skills gaps, training needs, and employment opportunities for young people in various sectors.
 - Collaborate with stakeholders to design youth-centered interventions and capacity-building programs to enhance employability and entrepreneurship.
 - Create visualizations, reports, and presentations to communicate findings and recommendations to stakeholders, including policymakers, NGOs, community leaders, and project beneficiaries.
 - Contribute to the development of strategies and policies informed by evidence-based research and data analysis to recommend interventions and policies to increase youth employment.
- d. Undergo signal mapping for understanding the effect of climate change on health:**
 - Identify relevant datasets and sources of information related to climate change and its impact on public health in small islands.
 - Analyze correlations between climate variables and health outcomes using statistical methods.
 - Produce reports highlighting the connections between climate change and health risks, along with recommendations for intervention strategies.
- e. Undertake signal mapping for understanding the effect of climate change on livelihood:**
 - Conduct a literature review and data analysis to understand the intersection of climate change and livelihoods in small island contexts.
 - Map out key indicators and vulnerabilities associated with climate change impacts on local economies and livelihood practices.
 - Develop visualizations and reports to illustrate the findings and support decision-making processes for adaptive strategies.

- 5. Research Consultant; Aspire to Innovate (a2i), ICT Division** **May 2024 – Sep 2024**
- Supporting the planning and conducting research on baseline and impact evaluations.
 - Providing assistance in compiling and collating data from a variety of sources.
 - Assistance in producing data collection tools and guidelines for questionnaires, KII, In-depth Interviews, Group Discussions, case studies, etc.
 - Assist in developing research methodology, conducting data analysis and preparing reports.
 - Providing essential visualizations and infographics for comprehensive reporting.
 - Communicating with stakeholders both internally and externally.
- 4. Statistical Consultant; NSDS-ISP, Bangladesh Bureau of Statistics (World Bank Funded Project)** **Sep 2022 – Mar 2024**
- Developing **National strategy for the Development of Statistics - 2024** in Bangladesh with an emphasis on international, regional, and national coordination development for quality official statistics.
 - Developing **Data Dissemination Policy** for national statistics office of Bangladesh.
 - Assembled materials on quality data management and statistical reporting statistical survey and assessment.
 - Conducting workshops on strategic development of statistics and training programs on statistical capacity development for national statistical system officials and stakeholder at local level.
- 3. Lead Data Analyst, Syntexcel LLC, Dhaka, Bangladesh** **Sep 2021 - Aug 2022**
- Assisted in multiple data analytics project with questionnaire design, data collection by kobotoolbox, data preprocessing, data mining, machine learning algorithms deployment and explore data insights.
- 2. Statistician-National Consultant, Bangladesh Bureau of Statistics (UNICEF Funded Project)** **Apr 2020 - Aug 2021**
- Developing **Action Plan and Methodological Guidelines towards Data Generation & Disaggregation for Monitoring and Evaluation of SDGs** in Bangladesh and several databases and reporting on SDGs m&e.
 - Developing **National Quality Assurance Framework** for Official Statistics for inter-ministerial agencies in Bangladesh.
 - Assisting in Publication named 'BBS Glossary (Concepts and Definitions);
 - Reporting-Monthly National Data Coordination Committee (NDCC) Meetings;
 - Reporting-Publication of the report on 'Urban socio-economic status survey 2019';
 - Survey- 'Water, Sanitation and Hygiene (WASH) Expenditure Survey 2021';
 - Survey- 'Covid-19 Transmission survey 2021';
 - Conducting multiple capacity-building programs on data management and analytics.
 - Monitoring & evaluation of the progress of SDG development at the international and national level which are relevant to BBS policy directions;
 - Supporting to undertake systematic review of data ecosystem (both published and unpublished sources) to establish SDG data gaps in the country in line quality, accessible, timely and reliable disaggregated data needed to help with the measurement of progress and to ensure that no one is left behind SDGs;
 - Providing technical guidance for the engagement with statistics producers and data providers and participate in relevant meetings and validation workshop;
 - Working closely with a2i team with the direction of FPO, SDG Cell for data collection activities, accuracy & data validation check, data analytics and assist SDG Focal Point to ensure quality data through ongoing consultations to achieve intended objectives and fostering the user sensitive data requirement;
 - Support SDG Focal Point to work for the National Committee for SDGs implementation and Monitoring, National Data Coordination Committee, SDG Technical Working Committee, etc.
 - Collaborating to conduct multiple workshops on quality management of administrative data.
 - Supporting in field survey design, questionnaire preparing, data collection tools, data analysis tools etc.
- 1. Co-founder and Lead Data Analyst, Syntexcel LLC, Dhaka, Bangladesh** **Jun 2018 - Mar 2020**
- Collaborated with 10 data analysts to devise techniques for processing of survey data and management;

- Utilized data visualization tools including Tableau & Power BI and analytical tools including Python & R to deliver insights on multiple data analytics projects;
- Utilized statistical methodologies and machine learning algorithms, including regression, decision trees, random forests, k-nearest neighbors, and support vector machines, to advance scientific research;
- Developing survey methodology for both qualitative and quantitative approach along with data collection method;
- Survey design, questionnaire preparing, data collection, data analysis, report writing, report review, and assist in developing the research proposal.
- Assist in data management, data processing, and data visualization;
- Conduction of qualitative and quantitative analysis to explore business insight and making productive decision (Excel, STATA, R, Python, Power BI);

EDUCATION

Master of Science in Data Science and Analytics (MDSA)

Jan 2023 – June 2024

East West University

Relevant Courses: Probability & Statistics, Programming for Data Science, Statistical Inference, Biostatistics, Multivariate Analysis, Regression, Database Management System, Machine Learning, Deep Learning, Big Data Analysis

Master of Development Studies (MDS Professional)

Jan 2021 - Jul 2022

Bangladesh University of Professionals

Senior Thesis Topic: Water, Sanitation, and Hygiene (WASH), Informal Road Transport Worker

Relevant Courses: Development Economics, Project Management, Result Based Management, Development Communication, Feasibility Study, Design Thinking

Bachelor of Science (BSc) in Statistics

Jan 2013 - Dec 2017

University of Dhaka

Relevant Courses: Statistical Computing, Statistical Inference, Multivariate Analysis, Time Series Analysis, Econometrics, Data Analytics with R, Demography, Biostatistics, Epidemiology, Bioinformatics

COMPUTER SKILLS

- **Statistical Analysis:** Excel, SPSS, STATA, R, Python
- **Visualization Libraries:** Matplotlib, Seaborn, Plotly, Bokeh, Pygal, Altair
- **Visualization Software:** Power BI, Tableau, Qlik Sense, Looker Studio
- **Machine Learning Tools:** Pandas, NumPy, Scipy, Scikit-learn, TensorFlow, keras, PyCaret
- **Machine Learning Models:** Regression, Random Forest, Decision Tree, SVMs, KNNs etc.
- **Deep Learning Models:** Artificial Neural Networks (ANNs), Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs) and Long Short-Term Memory Networks (LSTMs), Generative Adversarial Network (GAN), Deep Belief Networks (DBNs).
- **Big Data Tools:** Apache Hadoop

RESEARCH EXPERIENCES

- Predicting the under 5 mortality determinants in Nepal by using machine learning algorithms: evidence from the 2022-2023 Nepal Demographic & Health Survey;
- Bridging the Gap: Deep Learning for equitable skin disease diagnosis across diverse skin tones;
- Access to Water, Sanitation and Hygiene (WASH) facility for informal road transport workers in Dhaka Mega City;
- Disaster Risk Transfer: A Case Study of Crop Insurance Strategy in Northern Bangladesh;
- A Case Study on the Job Satisfaction of the Graduate Students of Public University.

CERTIFICATIONS

- Global Training on Disaggregated Estimates Using Small Area Estimation Methods in R (UNGP)
- International Data Masterclass (UNGP)
- Data Scientist Bootcamp (Akaademy)
- Business Analytics with Excel (SimpliLearn)
- Climate Change Negotiations and Health (UN CC e-Learning Platform)
- Advanced Research Methodology (Center for Advanced Social Research-CRAS)
- Fundamentals of GIS (Geospatial Science and Research Foundation-GeoSRF)
- Search Engine Optimization and Google Analytics (Devsteam Institution, Dhaka)

INTERESTS

- Social Work, Cycling, Fund Raising, Blogging.

PORTFOLIO

- GitHub: <https://github.com/aukabir>
- Web Portal: <https://ahammadkabir.owlstown.net>

REFERENCES

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Mr. Bikash Kishore Das (Former Team Leader)

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