CURRICULUM VITAE

A.T.M. Ahsanul Kyum Siam

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Academic Credentials

Bachelor of Science in Statistics Mawlana Bhashani Science and Technology university February, 2020 – September, 2025	CGPA: 3.50/4.00
HSC | Ideal College | Dhanmondi, Dhaka | 2017-2019	GPA: 4.67/5.00
SSC | Jamalpur Zilla School | 2009-2017	GPA: 5.00/5.00

Publications

1. Md. Abul Hossain, DR. Faijun Nahar Mim, **A.T.M. Ahsanul Kyum Siam*,** Tursa Tanjim, Md. Tanvir (2024) "Exploring the sociodemographic effect of early marriage in Bangladesh: A Machine learning Approach" [**Published**] ASSAR Publication, ISSN (E): 2709-9229, Volume: 3, Issue: 6

2.**A.T.M. Ahsanul Kyum Siam*,** Md. Abul Hossain, Tursa Tanjim, Md. Tanvir (2025) "Identifying the Factors of Early Marriage in Bangladesh using BDHS 2022 dataset", [Under review]

3. **A.T.M. Ahsanul Kyum Siam***, Md. Abul Hossain, Tursa Tanjim, Md. Tanvir (2025) "Identifying Determinants of Early Birth in Bangladesh: A Machine Learning Approach with BDHS 2022 Dataset", [Under review]

4. Akram Hossain, Arju Ahmed*, **A.T.M. Ahsanul Kyum Siam,** Tajrin Jahan Raisa, Nurul Fajar Alok (2024) "Discovery of Conserved miRNA Targeted Biomarkers Linking Oxidative Stress to Chronic Inflammation in Aging based on Integrated Bioinformatics Approach" [Under review]

5. **A.T.M. Ahsanul Kyum Siam***, Tajrin Jahan Raisa, Akram Hossain, Arju Ahmed (2025) "Identification of miRNA Targeted Biomarkers in Cardiovascular Disease" [Under review, International Conference, DU]

6. Md. Abul Hossain, **A.T.M. Ahsanul Kyum Siam***, Tursa Tanjim, Md. Tanvir (2024) "Predictive Performance of Ensemble and Non-Ensemble Machine Learning Models in Identifying Cardiovascular Disease: A Dual-Approach Comparative Analysis" [Under review].

7. Aminur Islam, **A.T.M. Ahsanul Kyum siam***, Rafi Ahmed, Sifat Ar Salan (2023) "Malnutrition Constraints in Bangladesh: Composite Index of Anthropometric Failure Analysis Using Ensemble and Non-Ensemble Models". [Under review]

PROJECTS

Diwali online Sales Analysis
• Deal with Missing Values (Outliers detection)
• Feature Engineering and Encoding (One hot encoding, Lebel encoding, Ordinal encoding)
• Univariate Analysis & Bivariate Analysis Visualization
• Tools & Libraries: **Python (Pandas, Seaborn)**

HR Report Analysis
- Key Findings: Most of the people leaving the company at which reasons and which age group
- Undertook a deep idea about sales department how the sale reacts with other related things.
- Ideated the future items would improve and long-term financial impact.
- Tools: **Microsoft Excel, Power Query, Power BI**

Advanced Excel Projects (Sales Analytics)
- Built sales data models by connecting multiple Excel files using Power Query and Power Pivot.
- Created relational models for sales, customers, products, and time dimensions.
- Developed DAX measures for revenue, growth trends, and KPI tracking.
- Automated data cleaning and refresh workflows for accurate reporting.
- Designed interactive dashboards with Pivot Tables, charts, and slicers.

Research Projects using Python
- Conducted end-to-end data analysis using Pandas, NumPy, and Seaborn, including data cleaning, exploratory data analysis (EDA), and statistical summarization.
- Built and evaluated machine learning models (e.g., regression, classification, clustering) using scikit-learn to extract insights and support data-driven decisions.
- Developed reproducible research workflows with well-documented Python code and visualizations; project implementations are available on GitHub.

Reviewed Article

1. Prevalence and risk factors of psychological distress and depression among Bangladeshi migrants in Australia: A cross-sectional study, **Journal of Racial and Ethnic Health Disparities (4 September – 10 September) 2025**

Skills

Technologies & Tools	Programming Languages	Concepts	Writing Tools
Excel	Python	Explanatory Data Analysis	MS Office
Power Query	R	ELT	LATEX
Power BI	SQL	Machine Learning	Notion
SPSS	C++	Statistical Tests	
STATA		Regression	
		Hypothesis	

Workshop

Workshop on Sustainable Statistics, Department of Statistics, Mawlana Bhashani Science and Technology University, Bangladesh, 8 – 9 April 2022

Reference

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