

Maksuda Aktar Toma

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SUMMARY

2nd year Master's leading PhD student in Statistics with expertise in statistical modeling, data visualization, machine learning, and biostatistics. Skilled in analyzing complex datasets and delivering actionable insights. Experienced in academic research and cross-functional collaboration. I am currently seeking an internship/co-op opportunity for Summer 2025.

EDUCATION

University of Nebraska Lincoln, USA

Master of Science in Statistics

Expected May 2028

CGPA 3.45/4.00

University of Dhaka, Bangladesh

Master of Science in Statistics

Jan 2021–June 2022

CGPA 3.22/4.00

University of Dhaka, Bangladesh

Bachelor of Science in Statistics

Jan 2016–Jan 2021

CGPA 3.28/4.00

SOFTWARE SKILLS

R	SAS	PowerBI	SQL	Graphic Design (Adobe Photoshop)
Python	SPSS	STATA	Tableau	Microsoft Excel, Word, PowerPoint

PROFESSIONAL EXPERIENCES

Graduate Teaching Assistant, University of Nebraska Lincoln

Aug 2023 - Present

- Teaching Stat 218 (Intro to Statistics) and assisted with grading and coding for Stat 301 (Mathematical Statistics).
- Introducing new technology and software associated with Statistics like Applet, programming languages like R
- Designed and graded weekly tests and assignments, providing feedback to enhance student learning.

Research Officer, Association for Social Advancement (ASA), Bangladesh

Apr 2023 – July 2023

- Conducted qualitative and quantitative analyses to evaluate program outcomes and identify future risks.
- Designed surveys, ensured data accuracy, and maintained quality in interview transcription and analysis.
- Presented findings with actionable recommendations to stakeholders and authored detailed reports for dissemination.

Research Assistant, Centre for Governance Studies (CGS), Bangladesh

Apr 2022 – Mar 2023

- Conducted qualitative research on politics, governance, and democracy, facilitating focus group discussions for a U.S. Department of State-funded project on confronting misinformation.
- Authored journal articles based on research findings, providing insights into critical societal issues.

ACADEMIC PROJECTS

2024 Travelers University Modeling Competition

- Fitting the best model to mitigate call center expenses for CloverShield Insurance by creating a predictive model from obtaining the Kaggle dataset, comprising 80,000 training samples and 20,000 validation.

Evaluating the Survival of Pathogenic Bacteria in Beef Jerky

- Designed the study collaboratively with the client, including power analysis and data simulation, and conducted advanced statistical analyses to identify the optimal model for data interpretation.
- Delivered a comprehensive report highlighting key factors influencing bacterial growth, aiding client decision-making

100 years of Pies vs. Bars

- Analyzed the evolution of pie and bar charts through historical and empirical studies, assessing their effectiveness in conveying proportional data and providing insights into best practices for data visualization.

CO-CURRICULAR ACTIVITIES

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|---|---------------------|
| • Treasurer , Statistics Graduate Student Association (GSA), UNL | July 2024 - Present |
| • General Secretary , Dhaka University Debating Society (DUDS) | Oct 2021 – Dec 2022 |
| • General Secretary , Shamsun Nahar Hall Debating Club (SNDC) | Feb 2019 – Oct 2021 |

ACHIEVEMENTS

- Runner up in 14th JUDO IV (Inter-Varsity) for attaining a national-level debate competition
- Champion in Badminton Tournament in women's category