Arkajyoti Bhattacharjee

⌂ arkab-ds.github.io | ✉ bhattacharjee.57@osu.edu | ⦿ ArkaB-DS | in arkajyoti-aj

EDUCATION_____

The Ohio State University, Department of Statistics   Columbus, OH, USA
Doctor of Philosophy (Ph.D.) in Statistics   *Aug '22 - Ongoing*

- Graduate Teaching Associate: *Aug '22 -Ongoing*
  Lecturing, creating exams, managing recitations, grading, tutoring, and assisting in R labs for undergraduate STAT courses.
- Relevant Coursework: Experimental Design, Linear Model Theory, Advanced Statistical Theory I, II, Advanced Computational Statistics, ML & Statistical Pattern Recognition.

Indian Institute of Technology Kanpur, Department of Mathematics and Statistics   Kanpur, UP, India
Master of Science in Statistics   *Sep '20 – Jun '22*

- Relevant Coursework: Statistical & AI Techniques in Data Mining, Time Series Analysis, Multivariate Analysis, Statistical Simulation & Data Analysis, MCMC.
- Awards: Academic Excellence Award (2020, 2021) (for the top 10% of the batch and having a CPI > 8.5/ 10)
- Leadership: Student Nominee in Departmental Undergraduate Committee; STAMATICS Coordinator

Presidency University, Department of Statistics   Kolkata, WB, India
*Bachelor of Science (**Honours**) in Statistics*   *Aug '16 – Jun '19*

PUBLICATIONS_____

Nash, J. C., & **Bhattacharjee, A.** (2023). A Comparison of R Tools for Nonlinear Least Squares Modeling. *R Journal*, *15*(4).

EXPERIENCES_____

Accenture Solutions Pvt. Ltd.
Remote *Data Science Analyst Intern*   *May – Jul '21*

- Created an **AutoML** tool with **Python** and **Dash**, featuring multiple data pre-processing methods, algorithm selection, model optimization, and interactive visualization for diagnostics and predictions.

The R Project for Statistical Computing, Google Summer of Code, 2021   Remote
Student Developer   *Jun – Aug '21*
Mentors: Prof. John Nash (Univ. of Ottawa), Dr. Heather Turner (Univ. of Warwick)

- Developed the **nlsCompare R package** to compare model characteristics derived from existing and new R functions for nonlinear least-squares analysis.
- Wrote tests for **nlsj** to strengthen code structure and improve **nls()** functionality.
  View Project: https://summerofcode.withgoogle.com/projects/5154479671869440

Statistical Consulting Service, The Ohio State University   Columbus, OH, USA
Graduate Student Consultant   *May – Jul '23*

- Consulted on multi-disciplinary research projects spanning Computer Science, Speech and Hearing Science, Geography, Health and Rehabilitation Science, and Anthropology.

PROJECTS_____

Understanding Confidence Intervals in Adaptive Markov Chain Monte Carlo (AMCMC)   *Aug – Nov '21*

- Reviewed kernel estimators of asymptotic variance and confidence intervals in AMCMC.
- Verified CLT conditions with simulation examples in R.

EXTRACURRICUL ARACTIVITIES_____

Judge, Statistical Analysis Award - American Statistical Association, Columbus Chapter   *April '24*

   • Evaluated and assessed projects for statistical rigor and advanced analysis techniques, providing critical feedback to participants.