

RAJESH MAJUMDER

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SKILLS

- Study Designs and sample size calculation
- Statistical Inference and modeling.
- Data Visualization
- Missing Data Techniques
- Resampling
- Longitudinal data analysis
- Advanced Regression (Ridge, LASSO, GAM, GLMM, GAMLSS)
- Advanced Multivariate Analysis

SOFTWARE PROFILE

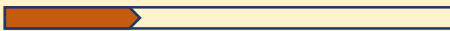
R



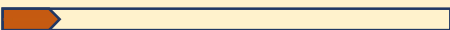
Advanced Excel & VBA



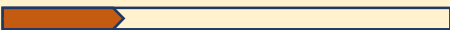
Python



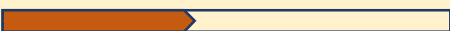
Power BI



C



SQL



LYX / LATEX



Microsoft Office



QUALIFICATION HIGHLIGHTS

- Comprehensive training in theoretical and applied statistics.
- Hands-on experience in study designs; accustomed to survey data, real hospital, and clinical data.
- Proficient in statistical computing with R.
- Always ready to take on challenges.
- Enthusiastic to learn something new and share with others.

EDUCATION

M.SC. IN STATISTICS [2019-21]

WEST BENGAL STATE UNIVERSITY

With 8.68 CGPA

B.SC. IN STATISTICS [2016-19]

ACHARYA PRAFULLA CHANDRA COLLEGE

With 63% marks

EXPERIENCE

ST. JOHN'S RESEARCH INSTITUTE, BANGALORE [FEB,2022 - PRESENT]

DIVISION: EPIDEMIOLOGY, BIOSTATISTICS AND

POPULATION HEALTH

DESIGNATION: STATISTICIAN

WORK HISTORY

- **ST. JOHNS' RESEARCH INSTITUTE**

Roles & Responsibilities

- Analyzing the data used for research by choosing suitable statistical methods and interpreting the outcomes.
- Reviewing the statistical reports for the publication.
- Carry out data cleaning and manipulation. Conduct data analysis of clinical, hospital, laboratory, and survey data applying standard and non-standard statistical methodology from exploratory analysis to final model building, sensitivity analysis, diagnosis, causal effects, etc.

Projects

- **Multiple Electrolyte Solution vs. Saline in Pediatric Septic Shock**
 - Analyzed data for the publication with using suitable statistical methods such as, prevalence checking, sensitivity analysis, Fine and Gray Sub-distributional Hazard Regression.
- **Chronic Immune thrombocytopenia and HRqol Analysis**
 - Helped to analyze data by using suitable statistical methods such as, t-test, Multivariate Regression, MANOVA
- **A Randomized Controlled Trial of Norepinephrine plus Dobutamine versus Epinephrine as First line Vasoactive agents in Fluid Refractory Pediatric Septic Shock**
 - Reviewed the statistical tables for the publication using suitable statistical methods such as, difference in difference analysis, RR.
- **Neurocognitive dysfunction in HIV patients by using modified MMSE scale, its correlation with cd4 count and viral load (vl)**
 - Reviewed the statistical tables for the publication using suitable statistical methods such as, Quasi-Poisson Regression, Correlation test.
- **SAMPLE SIZE CALCULATION**
 - As a part of projects helped with calculating sample size for the project "Comprehensive Mapping of Nutrition and Health Biomarker of population" conducted by ICMR

ACHIEVEMENT

- Awarded first prize for the paper presentation(oral) at 40th Annual National Conference of the Indian Society for Medical Statistics,2022
- First rank in M.Sc. from WBSU in the year 2021

CERTIFICATION COURSES

- Machine Learning, Data Science and Deep Learning with Python from Udemy.
- Introduction to SQL from

Publication

- **“Customization of WHO Under-Five Growth Standards for an Accurate Quantification of Public Health Burden of Growth Faltering in India.”**
Santu Ghosh¹, Rajesh Majumder², Harshpal Singh Sachdev³, Aruna V Kurpad⁴, Tinku Thomas⁵.
- **“Anthropometric growth reference for Indian children and adolescents.”**
Rajesh Majumder¹, Anura V Kurpad², Harshpal Singh Sachdev³, Tinku Thomas⁴, Santu Ghosh⁴

- **Personal Project**
- **Performance of LASSO when one or more covariate is/are Missing Not at Random (MNAR) [M.Sc. 2021]**

Motivation

- The motive of this project is, instead of using multiple imputations, how to perform variable selection tasks under the multicollinearity, where one or more features are affected by the Missing not at Random (MNAR) mechanism.
- Applied the LARS algorithm to find LASSO coefficients & introduced a new alternative method, named IPW-LASSO (Inversed Probability Weighted LASSO), for variable selection & Estimation. MASS, and LARS packages of R were used.

- **A study of effect of different diets on weight loss [B.Sc. 2019]**

Motivation

- The motive of this project is to find among the 3 diets which one gives the best result for weight loss.
- Q-Q plot, and the Shapiro-Wilk test, test for Homogeneity (Bartlett’s test, Levene’s Test), ANOVA & ANCOVA were used by using SPSS and R.