**R-Shiny-Apps**

**📊 Mudasir's Statistical App Suite**

A collection of interactive R Shiny apps developed by **Mudasir Mohammed Ibrahim** for basic and advanced data analysis, modeling, and research support. Each tool is tailored to meet specific statistical needs—from mediation modeling to robust regression and sample size calculations.

**1. MedModr**

🔗 [Launch MedModr App](https://mudassiribrahim30.shinyapps.io/MedModr/)  
An interactive app for conducting **simple mediation, serial mediation, and moderation analyses** using composite variables or constructs. It provides:

* Support for 100+ predictor variables
* Automated path diagrams
* Standardized coefficients
* Syntax previews for various models
* Support adjusting for covariates

**2. RobustRegressor**

🔗 [Launch RobustRegressor App](https://mudassiribrahim2025.shinyapps.io/Robustregression/)  
A powerful tool for **robust regression analysis** using lmrob and rlm methods. Features include:

* Support for 100+ predictor variables
* Standardized parameter estimates
* User-friendly comparison of robust models
* Intuitive UI for variable selection

**3. ROCCurve**

🔗 [Launch ROCCurve App](https://mudassiribrahim30.shinyapps.io/ROC_CURVE/)  
An efficient app for generating **ROC curves** and evaluating binary classifiers. Key features:

* Support for 100+ predictor variables
* Confusion matrix, accuracy, and ROC values
* Downloadable plots and metrics

**4. TagSelect**

🔗 [Launch TagSelect App](https://mudassiribrahim30.shinyapps.io/Tagselect/)  
A flexible tool for **participant tagging and random sampling**. Ideal for surveys and experiments:

* Support for 100+ predictor variables
* Import participant lists in various formats
* Randomly select and tag individuals
* Also feature advanced randomization methods for experimental designs
* Export results in Word or Excel

**5. FAnalyzr**

🔗 [Launch FAnalyzr App](https://mudassiribrahim30.shinyapps.io/fanalyzr/)  
A comprehensive toolkit for **factor analysis and more**. Designed for psychometrics and multivariate studies:

* Support for 100+ predictor variables
* Exploratory and confirmatory factor analysis
* Reliability and validity testing
* Regression and model diagnostics

**6. CalcuStats**

🔗 [Launch CalcuStats App](https://mudassiribrahim2025.shinyapps.io/CalcuStats/)  
A lightweight, multifunctional app for **sample size and power calculations**. Highlights include:

* Taro Yamane and Cochran’s sample size formulas
* Proportional allocation methods
* Basic descriptive stats and summaries
* Export sample size calculation steps and proportional allocation table

**7. KMPlotGenie**

🔗 [Launch KMPlotGenie App](https://mudassiribrahim30.shinyapps.io/KMPlotGenie/)  
An elegant tool for building **Kaplan-Meier survival curves** with customizable aesthetics:

* Upload survival data in multiple formats
* Customize axis labels, titles, and font size
* Interactive survival curves with log-rank test
* Export high-resolution plots and results

**8. ggPubPlot**

🔗 [Launch ggPubPlot App](https://mudassiribrahim30.shinyapps.io/ggPubPlot/)  
A versatile visual analytics tool for creating **publication-ready ggplot2 charts** interactively:

* Barplots, boxplots, scatter plots, histograms, etc.
* Customizable labels, themes, and color palettes
* Display frequencies and percentages on graphs
* Export charts in PNG format

**9. EpiDemSuite**

🔗 [Launch EpiDemSuite App](https://mudassiribrahim30.shinyapps.io/EpiDemSuite/)  
A full-featured epidemiological toolkit for **analyzing public health and medical data**:

* Descriptive, inferential, and regression analysis
* Risk ratios, odds ratios, and survival analysis
* Diagnostic test evaluation and time series methods
* Spatial modeling included

**10. QuickStatsGen**

🔗 [Launch QuickStatsGen App](https://mudassiribrahim30.shinyapps.io/QuickStatsGen/)  
A flexible app designed to help students, researchers, and instructors **generate and analyze data for statistical training and practice**:

* Generate synthetic datasets with user-defined variables
* Export results and datasets in Word or Excel formats
* Supports CSV, Excel, SPSS, and Stata input/output

**📧 Contact**

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