# PRIYANKAR SAMANTA

M.Sc. in Statistics
University of Calcutta
Roll No:C91/STS/231016

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in Priyankar Samanta

## EDUCATION

| Degree | Institute/Board | CGPA/Percentage | Year |
|---|---|---|---|
| M.Sc. in Statistics | University of Calcutta | 7.13 (Till 3rd semester) | 2023-Present |
| B.Sc. in Statistics | RKM Residential College(Autonomous) | 9.78 | 2020-2023 |
| Higher Secondary | Nimpith Ramkrishna Vidyabhavan | 96 | 2020 |
| Secondary | Babupur Agricultural High School | 91.43 | 2018 |

## PROJECTS

- **Covid-19 Data Analysis**                                    *Aug 2024 - Sep 2024*
  *Tools: R,EXCEL*
  - Conduct **hypothesis testing(t-test)** to test whether older people are likely to die than younger ones.Also test whether gender has any effect on dying.
  - Worked on **logistic regression** considering death as response and features are gender,recovery and age.Remove insignificant features using backward elimination technique.
  - Performed **detection of multicollinearity**.
  - Accuracy of the model achieved is 0.939.

- **Spotify Data Analysis**                                      *Sep 2024 - Oct 2024*
  *Tools: R,EXCEL*
  - Worked on **Multiple linear regression** to predict popularity of an artist based on danceability,loudness,energy, instrumentalness etc.
  - Check for the assumptions normality of errors,homoscedasticity and independence.
  - Performed **Outlier detection**,**detection of multicollinearity,autocorrelation & heteroscedasticity**.
  - Refit the model after removing outliers to get a improved Adjusted $R^2$.

- **A Comparison Between Two Methods of Estimating Population Proportions**     *Jan 2023-May 2023*
  **Guide:**Prof. Subhadeep Banerjee,RKMRC Narendrapur
  - A compulsory individual project during final year of B.Sc. in Statistics.
  - Used famous Warner's randomized model to get more credible estimate.
  - Compared the results with the conventional estimation methods using non-randomized response technique(direct sampling).

## ONLINE INTERNSHIP

- **Data Science intern at Prodigy Infotech**                    *Oct 2024 - Nov 2024*
  *Tools: R,EXCEL*
  - Data visualisation using bar chart and histogram.
  - Exploratory data analysis on titanic dataset and identifying relationship between variables.
  - Analyse and visualise the sentiment patterns in social media data to identify public opinion and attitude towards specific topics and brands.
  - Analyse traffic accident data to identify patterns related to road conditions,weather and time of the day.

## SKILLS & INTERESTS

- **Programming Languages**: R
- **Tools**: LaTex(Basics),MS Word,MS Excel,MS PowerPoint
- **Libraries**: dplyr,rpart,MASS,caret
- **Interests**: Data Analysis,Data Visualisation,Analytical Thinking,Problem Solving,Regression
- **Languages**: English,Hindi,Bengali

## Courses undertaken

Real Analysis,Probability Theory,Linear Models & Regression Analysis,Statistical Inference,Sample Surveys & Design of Experiments,Large Sample Theory,Non-Parametric Inference,Decision Theory,Applied Bayesian Methods & Semiparametric Methods,Linear Algebra, ANOVA,ANCOVA,Sampling Distributions,Multivariate Analysis,Stochastic Processes,Time Series Analysis,Advanced Parametric Inference,Advanced Data Analytic Techniques,Econometrics,R Programming.

## Scholastic Achievements

- **AIR 104** in GATE Statistics 2025                                                                    *2025*

- Secured **20th rank** in Higher Secondary Examination conducted by WBCHSE                       *2020*

- Awarded **INSPIRE Scholarship** at Dept.of Science & Technology by Govt.of India          *2020-Present*

## Positions of Responsibility & Extracurricular activity

- **Volunteer at National Service Scheme(NSS)**,Ramakrishna Mission Residential College          *2020-2023*

- **Coordinated the academic fest**,Inferencia,presented by Dept.of Statistics,RKMRC Narendrapur *Apr 2023*