

# RANITRA DAS

Master of Science (M.Sc.), Statistics

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## Academic Qualifications

Course Name	Board/University	College/School	Year of Passing	Marks Obtained
M.Sc., Statistics	University of Hyderabad	School of Mathematics & Statistics	2020	8.17 CGPA
B.Sc. (H), Statistics	University of Calcutta	Asutosh College, Kolkata	2018	65%
12 <sup>th</sup> Class	WBCHSE	Labanhrad Vidyapith	2015	90.20%
10 <sup>th</sup> Class	WBBSE	R.K.V.M., Kolkata	2013	86.71%

## Projects

- **The Battle of Neighborhoods** ([GitHub](#)) May-June 2020
  - To identify similar venues in Pune, India based on their ratings and average costs.
  - Extracted details (location, rating, cost, etc.) of different venues using Foursquare API & Zomato API.
  - Carried out the analysis in Python after creating a map of Pune with the help of the folium library.
  - Used Cluster Analysis to form 2 clusters (0 and 1) of similar venues on the map.
- **Project on “Auto-mpg Dataset”** September-November 2019
  - Visualization, Exploratory Data Analysis and Model Building using R.
  - Used Regression and carried out the diagnoses to get the best fitted model.
  - Examined the model on the test set & predicted more than 20 new observations.
- **Project on “Orange Telecom Dataset”** September-October 2019
  - Studied the trends of the customers of Orange Telecom and predicted their churn.
  - Used Logistic Regression for the Binary (0 or 1) Classification problem in R.
- **Project on “G20 Countries”** 2017
  - Analysis of the Population & Economy of the 20 Countries & Unions.
  - Visualization, exploration and practical use of various Statistical methods.

## Certifications

- **IBM Data Science** ([Certificate](#)). 2019 - 2020
  - Developed and honed hands-on skills in Data Science and Machine Learning using Python & SQL.
  - Used a variety of Data Science tools, performed Data Visualization and Analysis.
  - In the process I completed several assignments on IBM Cloud including a Capstone Project at the end.
- **Financial Risk Management (FRM), Level 1.** (Ongoing)
  - Currently preparing for the level 1 examination.
  - In the process I am getting familiar with various financial concepts including Derivatives, VaR, Financial Risks, etc.
- **Getting Started with SAS Programming** ([Certificate](#)). 2020
  - Fundamentals of the SAS programming language.
  - Analyzed data & applied SAS programming principles in practical examples.

## Technical Skills

- **R / RStudio** – Implemented projects and coursework involving various Machine Learning algorithms viz. Regression, Logistic Regression, Decision Tree, Random Forest, SVM, PCA, etc. using packages – dplyr, tidyr, ggplot2, plotly, etc.
- **Python (Intermediate)** – Carried out Data Visualization & implemented ML and DL algorithms like Regression, KNN, K - Means Clustering, Neural Networks, etc. using libraries - pandas, numpy, scikit-learn, tensorflow, keras, etc.
- **Microsoft Excel** - VLOOKUP, HLOOKUP, IF, Pivot Tables, Power Pivot, etc.
- **SAS (Basic), PostgreSQL (SQL), Tableau, Microsoft Word, Microsoft PowerPoint.**
- **Fundamentals of Financial Derivatives, OTC Market, Finance, etc.**

## Academic Achievements and Specialized Courses

- Receiving Inspire Scholarship from DST, Government of India. (2015 – 2020)
- Linear Algebra & Matrix Theory | Linear Models | Regression Theory & Analysis | Machine Learning using R.
- Theory of Inference | Theory of Sampling | Design & Analysis of Experiments | Probability & Measure Theory.

## Languages

- English | Hindi | Bengali

## Publication

- [The Battle Of Neighborhoods](#) (Platform – Medium)

## Interests

- Football | Tennis | Traveling | Music