



Aritra Biswas

Curriculum Vitae

Education

- 2017 **M.Sc. (Statistics)**, *University of Delhi, Delhi, India.*
2015 **B.Sc. (Statistics)**, *Presidency University, Kolkata, India, .*

Current Academic Project

- Title *Server based interactive programming in R to visualize maximum likelihood*
Supervisors Dr. Kapil Kumar, Department of Statistics, Delhi University
Description Simulating a data for a given probability distribution by user as input (i.e. family or distribution name and parameter space). This program uses Shiny server to visualise the log-likelihood of the simulated data and estimates the various population parameter associated with the distribution of the simulated data.

Independent Projects

- Jan-2013 **Case study with Minitab**, *A comparative study of OLS and multiple linear regression.*
This case study shows the basic differences between OLS and multiple linear regression. Similarity and difference between these two methods. Conducts a series of statistical test for regression assumption in R. Also, it validates various assumptions of linear regression with the help of residual analysis.
- July-2015 **YouTubeR**, *An R based interface to access and analyse YouTube API.*
YouTubeR is an interface in R to access YouTube data API. It gets real time data from Youtube data API and google plus API. It also converts the complex data structures, nested lists from JSON file to class S3 object, missing value treatment, graphically analysis, sentiment analytics. Utility associated with sentiment analysis in this package is the modification of various functions from Syuzhet, TM and openNLP packages in R. (Details mentioned in the package vignette)
 - o Dealing with complex data structure, sparse data, nested list, large missing values;
 - o Web scraping unstructured text data and creating structured lists in R:
 - (a) rvest package;
 - (b) Application of rjson, jsonlite, RJSONIO package;
 - (c) Application of tidyr, dplyr and data.table package;
 - o Data visualization with base graphics, ggplot2, ggvis, lattice and htmlwidgets in R.
- April-2016 **Exploratory data analysis with R.**
Validating regression assumptions by graphical and statistical tests, Multivariate data visualisation and feature selection.

Languages

English	Proficient	<i>Speaking and writing</i>
Hindi	Fluent	<i>Speaking and writing</i>
Bengali	Fluent	<i>Native speaker</i>

Computer Skills

Programming Languages:	R, C, GW-BASIC	Statistical Softwares:	Minitab, Excel, SPSS
Markup Languages:	LaTeX, Markdown, HTML	Web Services:	AWS, Rstudio Server, Shiny Server
R Developer:	YouTubeR, WebMap	Others:	SQL, WordPress, Joomla

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Interests

- Blogging
- Reading
- Cooking
- Photography

Technical Skills

Statistical machine learning	Classification, Regression Analysis, Support Vector Machine, Natural Language Processing, Resampling methods, Selection and Regularization, Unsupervised learning , Missing value analysis
Statistical methods	Hypothesis Testing, Dimensionality Reduction, Principal Component Analysis, Nonparametric Methods
Selected coursework	Probability Theory, Statistical Inference, Linear Algebra, Statistical Computing, Data Analysis (till Semester I and II), Generalized Linear Models, Multivariate Analysis, Econometrics and Time Series Analysis, Advanced Statistical Computing and Data Mining, Bayesian Inference, Operational Research (in upcoming Semester III and IV)

Online courses and certifications

- Statistical Learning, Stanford Online (with distinction)
- Predictive Analytics, IIMB, edX (Certified)
- Introduction to Machine Learning, NPTEL
- Applied Multivariate Analysis, NPTEL
- DataCamp
- Data Science Specialization, JHU

Extracurricular activities and responsibilities

- General secretary of photography club
- Web admin (Milieu, Presidency College)
- Guest blogger at PriceJugaad.com
- Graphic designer of college annual magazine
- Member, Milieu organizing committee
- Guest blogger at ifitry.com

Dear Sir or Madam,

Hello,

I'm Aritra Biswas. I'm currently perusing my post-graduation course in statistics from Department of Statistics, University of Delhi. I've done my graduation from Presidency College, University of Calcutta. I've come to know about the opportunity of an internship in Data Science Technologies Pvt Ltd from Internshala. As a keen observer of analytics industry, this opportunity has grabbed my eyeballs. I believe with my specific skill sets I can try to make Data Science Technologies Pvt Ltd better than others in the field of data science. I as far as I've gone through the information provided on the website, I've found that quite exciting, challenging, which made me to apply for this position. For this position I can offer:

- Skills in various programming languages (i.e R, C, SQL, LaTeX, Markdown). I'm a native R programmer with specialization in statistical learning and advanced multivariate data visualization. (For details, see resume)
- Academic course work in Statistics and application of mathematics.
- Familiar with cloud computing, such as AWS, GCE.
- Passion for data science and interest in development in the field of statistical computation.

In the past graduate school seemed to be the only option for doing this. Now I believe that I can disseminate my knowledge and passions more effectively through this internship opportunity as a data scientist. I would love to learn more about the responsibilities of a Data Scientist. My ultimate goal is to help grow the world's knowledge and to make it more accessible to a wide.

Sincerely,

Aritra Biswas

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