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 estimate*

Supervisors Dr. Kapil Kumar, Department of Statistics, Delhi University

Description Simulating data for a given user inputed specified probability distribution (i.e. family or distribution name and parameter space). This interactive program uses Shiny Server to visualise the log-likelihood of the simulated data in a contour plot and obtains MLE estimates of the population parameters by solving a system of non linear equations.

Independent Projects

Jan-2013 **Case study in Minitab**, *A comparative study of OLS and multiple linear regression*.
This case study does a relative comparison of ordinary least square regression and multiple linear regression by conducting a series of statistical tests, residual analysis and exploratory graphical analyses.

July-2015 **YouTubeR**, *A comprehensive package to access & analyse data from YouTube API via R* .
It gets real time data from Youtube data API and google plus API.Function from this package converts the complex data sturctures, nested lists from JSON file to class S3 object, does missing value treatment, graphical analyses and sentiment analyses. Utility associated with sentiment analyses, text mining and processing in this package is modification of various functions from Syuzhet, TM and openNLP packages in R. (Details mentioned in the package vignette)
- Dealing with complex data structure, sparce data, nested lists, large missing values;
- Web scraping unstructured text data and converting to stuctured list objects in R:
  - (a) Usage of rvest package;
  - (b) Application of rjson, jsonlite, RJSONIO package;
  - (c) Application of tidyr, dplyr and data.table package;
- Data visualization with base graphics, ggplot2, ggvis, lattice and htmlwidgets in R .

April-2016 **Exploratory data analysis in R**.
Validating regression assumptions by graphical and statistical tests, Multivariate data visualisation and feature selection.

Languages

English	Proficient	*Speaking and writing*
Hindi	Fluent	*Speaking and writing*
Bengali	Fluent	*Native speaker*

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 upcomming Semester III and IV)

Online courses and certifications

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

Extracurricular activities and responsibilities

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

Company Recruitment team   4th May 2016
Company, Inc.
123 somestreet
some city

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. From information provided on the website, I've found the opportunity to be quite exciting and challenging, which made me apply for this position. For this position I can offer:

o Skills in various programming languages (i.e R, C, LaTeX, Markdown). I'm a native R programmer with specializations in statistical machine learning and advanced multivariate data visualization. (For details, see resume)
o Academic coursework in Statistics and application of mathematics.
o Familiarity with cloud computing, such as AWS, GCE.
o Passion for data science and interest in the developments in the field of Statistical Computing.

I believe with my specific skill set I can try to make Data Science Technologies Pvt Ltd better than others in the field of data science. 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. If you have any question, feel free to contact me at: (Phone) +91-9540147437 or (Email) aritra.biswas.stats@gmail.com.

Thank you for your time and consideration.

Yours sincerely,

Aritra Biswas

Attached: curriculum vitae

Aritra Biswas
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