RAHUL CHATTERJEE

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Creative, analytical and a result oriented professional with experience in Retail and Consulting industry in India seeking a challenging assignment in the area of Consulting and Data Science with an organization of high repute.

PROFESSIONAL COMPETENCIES

*Business Analytics * Time series Analysis * Client Engagement * Predictive Modelling

*Project Management * Regression Techniques * Clustering techniques * Thought Leadership

PROFILE SUMMARY

- A result oriented professional with around 1 year of work experience in Data Analysis & Research, Retail and Consulting
- Strong knowledge of Predictive Modeling techniques such as Logistic Regression, Linear Regression
- Part of team of professionals in India and Hong Kong, and have delivered projects on time which had significant bottom line impact
- Adept at carrying out continued improvement of data quality through investigation and rectification of quality issues
- Expertise in working on R, SAS Enterprise Guide
- Effective communicator & negotiator with strong analytical, problem solving and organizational abilities

ACADEMIC DETAILS

- 2016- Working on PhD in Mathematical Statistics concentration on Multivariate techniques, University of Louisiana at Lafayette
- 2016 MS in Mathematical Statistics from University of New Orleans, USA
- 2013 Master in Statistics from University of Calcutta, Kolkata, India
- 2011 Bachelor in Science with honors in Statistics from University of Calcutta

KEY SKILLS

- Project management – managing all aspects of the Analytics and reporting work, ensuring compliance with internal controls.
- Lead , go-to-market strategies, and delivery efforts for analytics engagement with the sales team
- Complete responsibility of entire project delivery involving both leading the analysis and client interaction.
- Development of predictive models / strategies/dashboards which have significant impact to business monitoring and analysis.
- Build predictive models from start-to-finish (i.e. extract data, manipulate data, build model and validate model) and then deploy model on real data and track model performance.

KEY ANALYTICS PROJECTS

➢ **ASSISTED A B2B RETAILER OF HONG KONG TO CREATE PRODUCT/CUSTOMER BUNDLES AND DEVELOP PRICING STRATEGIES SO AS TO INCREASE REVENUE THROUGH UPSELL/CROSS-SELL**

- Designing the clustering algorithm for the retail client using ROCK clustering technique in consultation with the business heads
- Understanding the challenges and the technical capabilities required to execute the same in short timeline
- Understanding of big-data platform such as R, SAS
- Manage the client expectation and seamless delivery with a team of 7 highly competent colleagues
- Project management skill

➢ **ROBUST PARAMETER DESIGN OF POSSIBLE RISK FACTORS IN DEVELOPING OSTEOPOROSIS**

- A top hospital in Mumbai provided data on osteoporosis patients and the goal was to design.
- Objective of the exercise was to ensure that proactive action could be taken to reduce exposure on such subjects.

- Logistic regression approach(LAR/LASSO), to build a model from scratch and validate the same with out of time sample testing.
- The model had a capture rate of 65% in top two decile.

➢ **TOWARDS UNDERSTANDING AND EXPLOITING DEVELOPERS' EMOTIONAL VARIATIONS IN SOFTWARE ENGINEERING**

- Analyzed the categories in the bugs and performed clustering technique to cluster developers based on their emotion exhibition on bug fixing.
- Assimilating the bug types and developed robust measures to represent emotional scores for developers
- Provided insights on day and time based variations of emotional exhibit and guided future research in Bayesian set-up.
- Analysis correctly captured the emotional variations among developers. Paper was published in the proceedings of the 14th IEEE international conference on Software engineering research, management and applications(SERA2016) pp 185-192. Baltimore, MD, USA, 2016 (invited at the international journal of software innovation.)

➢ **A COMPARATIVE STUDY ON VULNERABILITIES IN CATEGORIES CLONES AND NON-CLONED CODE.**

- Understanding the research problem and devised the analytical pathway to address the research queries.
- Analyzed the impact of the vulnerabilities in cloned and non-cloned codes involving density of vulnerabilities and clustering them to find the most vulnerable category of the cloned code to the least vulnerable.
- Identifying the types of vulnerabilities which are predominant in cloned code and non-cloned code. Paper was published in the proceedings of the 10th IEEE international workshop on Software clones 2016 pp 8-14 Osaka, Japan 2016(winner of the best paper award)

➢ **HUMAN BEHAVIOR ANALYSIS BASED ON THEIR SOCIAL NETWORK ACTIVITY.**

- Predictive model, to ascertain the different social behavior indices of an individual based on the social network activity.
- The model successfully classified subjects to the categories of being introvert/extrovert and the extremes/moderates.
- Model has the potential to have a targeted approach for sending out emails/messages/calls for cross-sell in retail via social media and also to have vigilance over erratic behavior to scrutinize security.

WORK EXPERIENCE

- 2016-Present PhD candidate in University of Louisiana, Lafayette.
- 2014- 2016 Graduate teaching assistant and Research assistant at University of New Orleans, LA, USA
- 2014(Apr)- 2014(July) Blue Ocean Market intelligence , Bangalore, India as Data Scientist.
- 2003-2014 Research assistant in the dept of applied statistics and informatics IIT- Bombay.

OTHER ACHIEVEMENTS

- Was selected in the MS-PhD program with full scholarship and assistant-ship in University of New Orleans, was top 5% of the batch.
- Teaching Assistant with selection in PhD program at the University of Louisiana at Lafayette..