**­­SHOUVIK SHARMA**

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**EDUCATION**



***Master of Data Science*** ***(August 2019 – August 2021 (expected))***

Illinois Institute of Technology, Dept. of Computer Science ([**link**](https://www.iit.edu/academics/programs/data-science-mas)), Chicago, IL

***Master of Statistics*** ***(July 2016 – April 2018)***

NMIMS University, Dept. of Statistics, Sunandan Divatia School of Science, Mumbai

***Bachelor of Statistics*** ***(July 2012 – April 2015)***

University of Mumbai, Dept. of Statistics, K. J. Somaiya College of Science and Commerce, Mumbai

**WORK EXPERIENCE**

**Analyst April 2018– July 2019**

***Cartesian Consulting, Mumbai, India***

* Analysed historical data for one of India’s largest grocery chains, to identify patterns for improving business metrics like customer retention and reducing churn rate using statistical techniques like logistic regression and performing explanatory data analysis, which led to a two-fold improvement in the campaign response.
* Created customer one view and customer profiling based on the customer’s geography for a global translation services platform across geographies by analysing large and complex datasets and translated this analysis into business terms and actionable guidance. Deployed predictive modeling techniques like Random Forest to identify the ‘Most Valuable Customer’, this customer identification led to better customer targeting and improve the yearly top-line revenue by 3 % ([**git link**](https://github.com/shouvik19/Valuable-customer-prediction-model))
* Performed hypothesis testing to validate whether “Fantasy Sports is a game of skill or gamble” using Chi-Square Test, Linear Regression and paired T-test, the findings were successfully published in the Harvard Business Review

**Associate Relationship Manager July 2015 – July 2016**

***Tata Capital Financial Services Ltd., Mumbai, India***

* Drive acquisition channel of used car and two-wheeler dealership, by building customer scorecard after analyzing different parameters affecting repaying capacity
* Identified key metrics by extracting and analyzing customer database, and develop effective and informative reports and visualizations
* Carried out detailed analysis which led to a multi-fold increase in corporate lending for two-wheeler and used cars segment, with 0% NPA cases reported over the course of 10 months.

**TECHNICAL SKILLS**

* Analytical Tools: SAS Enterprise Miner, SAS Enterprise Guide, Base SAS, MS Excel, MS PowerPoint, SPSS, Microsoft Azure, Apache Pig, Apache Hive, Pyspark, Power BI, Pentaho, Microsoft Office Suite
* Languages: Java, R, SPSS, Python (NumPy, Pandas, Seaborn, Scikit-learn), MariaDB – SQL

**ACADEMIC PROJECTS**



**Project Title: Stack Overflow Data Analysis** **(**[**git link**](https://github.com/rahulmnair1997/StackOverflow-Data-Analysis)**)** **Oct 2019– Nov 2019**

* Leveraged big data technologies such as Apache Hive, Apache Pig and Apache Spark for deriving insights about the users.
* Extracted data using Google’s big query data warehouse, identified top spammers, expert users, and most valuable customers by using data mining tools like Apache Pig and Apache Hive.
* Conducted end-to-end analysis that includes that
* Built tag prediction model for predicting the tags for a stack overflow post using natural language processing and random forest classifier, the predictive model achieved an accuracy of 72.3 %

**Project Title: Stock Market Analysis** **(**[**git link**](https://github.com/shouvik19/Close-Price-Forecasting)**)** **Sept 2017– Dec 2017**

* Worked as a Strategies and Analytics intern to develop a price forecasting model for Greeksoft Technologies Ltd., Mumbai
  + - Built an RNN Neural Network model for positional trading using Keras package in python.
* The outputs obtained using the model supplemented the Bull Spread Strategy in Options Trading, the built model architecture was back tested for the period from 2012-2017 where it achieved correct market prediction in 71 % of the days.

**Project Title: Design Survey and Data Validation** **(**[**git link**](https://github.com/shouvik19/Internship-project-for-automation)**)**  **May 2017–July 2017**

* Worked as a Data Science Intern for Nielsen India Inc., Vadodara, to automate sample design processes using R software.
* Assisted in designing and development of the technical architecture for the sample design process.
* Automated scripts and processes for data reporting and business intelligence, using the R software which reduced the time required to complete these processes by 25%, thereby helping management to make important decisions faster.

**ACHIEVEMENTS AND AWARDS**

* SAS Certified Base Programmer for SAS 9 in Mar 2017.
* SAS Certified Predictive Modeler Using SAS Enterprise Miner 14 in Apr 2018.
* Earned TATA Capital Employee of the month (November 2015) – for exceeding expectations and commitment to deliverables.
* Machine Learning Foundations: A Case Study Approach by University of Washington – Coursera in Feb 2019.