Avneet Singh

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EXPERIENCE

Jul 2019- Present

Xceedance Consulting India Pvt Ltd.
Risk Analyst
Quantification of risk arising out of various natural catastrophes by analysing client's data for insurance and reinsurance markets, impacting decisions on underwriting, portfolio management and risk transfer. Also involved in catering to special client and in-house projects. Key roles include:

1. **Risk Modelling:**
   - *Responsible for predicting losses and premiums, using in-house software and risk-models, as a core member of the pricing team.*
   - *Managing complex data processing and data mining tasks on daily basis.*
2. **Developing In-house dashboard for reporting team members' productivity:**
   - *Dashboard depicting various productivity matrices developed in R, using R-Shiny, Plotly and DataTable packages.*
   - *Productivity metrics computed using data fetched from SQL and imported into R environment in an automated way by using complex SQL queries in sqldf package.*
3. **Predicting insurance renewals based on incentives given to the clients:**
   - *Identifying potential clients who would renew their expiring insurance policies if given some incentives like premium discounts or insurance add-ons.*
   - *Task performed by deploying **XGBOOST** and **Light Gradient Boost** based predictive models on clients' data.*
4. **Identifying and Classifying review on clients' insurance products:**
   - *Analysed various reviews received on the clients' insurance products using **Text Mining techniques** and classified whether the reviewer would recommend the insurance product or not.*
   - *Used **NLP** techniques to identify the negative reviews using **sentiment analysis**, based on which remedial steps were suggested to the client.*

INTERNSHIPS

Dec 2018- Jan 2019

National Institute of Public Finance & Policy, Delhi
Research Intern
*Studied the impact of dust on particulate matter pollution by creating visualization of $PM_{2.5}$ and PM_{10} daily data (**using the ggplot2 library in R**) and running the Difference-in-Differences **regressions in R.** Also studied the relation between corruption perceptions and some social factors such as rule of law. Many interactive graphs were created to evaluate India vis-à-vis its peer group, using the **Plotly library in R.***

Jun 2016 - Jul 2016

Outline India, Delhi NCR
Research Intern
*Managed gathering, cleaning and analysing data for **Right to Education, EWS** project in Delhi, conducted in conjunction with the **University of Maryland, USA.***

DATA ANALYTICS PROJECT

Understanding Consumer Purchase Behaviour
- Aim was to predict customer's purchase amount for each product based on product characteristics and consumer's characteristics such as age customer's demographics, and marital status.
- *Used **XGBOOST Regressor** for building the required model.*

Predicting Loan Eligibility of Individuals
- Aim was to automate the loan eligibility process given customers' demographic.
- *Used **Random Forest Classifier** to predict the eligibility.*

CERTIFICATIONS

Natural Language Processing (NLP) Using Python (**Analytics Vidhya**)*, learnt the following:*
- *Data Visualization in Python using Seaborn and Matplolib.*
- *Text Mining, Feature engineering for NLP using TFIDF, Count Vectorization and Text to sequence.*
- *Developing predictive models from Text Data using Machine Learning and Deep learning algorithms.*

Data Scientist with R (**DataCamp**)**,** learnt the following:
- *Data Visualization in R using GGplot2 and Plotly.*
- *Data Mining, Feature engineering techniques such as feature selection and feature extraction.*
- *Supervised and Unsupervised machine learning techniques.*

Data Analysis for Social Science (**EDx**)*, learnt the following:*
- *New Econometric methods, Classical Econometric methods and Machine Learning techniques used in social sciences to develop the causal relations.*

EDUCATION

2017 - 19 *Masters of Arts in Economics* | **Ambedkar University, Delhi**
2014 - 17 *Bachelors of Arts (Honours) in Economics* | **SGTB Khalsa College, University of Delhi**

TECHNICAL SKILLS

- Machine Learning and Advanced analytics algorithms such as Decision Trees, Random Forest, K-Means, XGBoost, and Time Series, Proficient in SQL, MS Excel, and MS PowerPoint.

POSITION OF RESPONSIBILITY

- **President-** Economics Society, SGTB Khalsa College (2016-17)
- **Event Coordinator-** Economics Society, SGTB Khalsa College (2015-16)