Vipul Satone

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EDUCATION

UNIVERSITY OF ILLINOIS **URBANA-CHAMPAIGN, IL**
***Master of Science in Industrial Engineering*,** May 2019 GPA: N/A
Concentration: ADVANCED ANALYTICS

VISVESVARYA NATIONAL INSTITUTE OF TECHNOLOGY **NAGPUR, INDIA**
Bachelor of Technology in Mechanical Engineering, May 2014 GPA: 3.52/4.0

PROJECTS

Prediction of bike ride duration. (Python) MAR 2017
• *Numpy*, *Pandas* and *scipy* packages were used to prepare and analyse the data.
• Random forest classifier from package *sklearn* was trained and used to predict the ride duration.

Segmentation of customers of a multi brand retail store based on their purchasing behaviour. (R) FEB 2017
• Using *VIM* and *MICE* packages in R missing data was visualized and imputed.
• Point of sale data was sorted using SQL queries with the help of *sqldf* package.
• RMF (Recency, Monetary and Frequency) values were computed and K-means algorithm was used for clustering.

Sentiment analysis for 2017 Uttar Pradesh election. (R) JAN 2017
• Using *twitteR* package tweets related to the election were downloaded from twitter API. Text mining package *tm* was used to clean data and convert it into corpus.
• *Syuzhet package* was used for sentiment analysis. Sentiments from this analysis fairly predicted the election outcome.

Prediction of house prices. (Python) SEP 2016
• Different techniques like LASSO, rigid regression and K-nearest neighbours were used to predict house prices from the collected data.
• Gradient descent algorithm was used to model regression.

WORK EXPERIENCE

Thermax Ltd. Pune, India
Proposal Engineer Aug 2014 – Feb 2017
• Used data analytics to optimize product prices.
• Analyzed data to develop different schemes for business growth in various segments like textile, food, capital goods etc.
• Worked with front-end sales team and back-end suppliers for smooth delivery of product to customers.

CSIR – Central Mechanical Engineering Research Institute Durgapur, India
Research Intern May 2013 – July 2013
• Optimization of shell and tube heat exchanger design using MATLAB for mathematical model simulation.
• Computational fluid dynamics based project on blood flow simulation for MDT (magnetic drug targeting).

SKILLS

Technical
R, Python, Tableau, Julia, MATLAB, MS Office.

AWARDS AND EXTRACURRICULAR ACTIVITIES

• Selected as a research team leader to mentor undergraduate students on data science project at IGL (Illinois Geometric Laboratory) for Fall 2017.
• 2nd place for publishing best paper in IPROMM 16 (Industrial Problems on Machines and Mechanisms) conference, 2016.

PROFESSIONAL COURSES AND ASSOCIATION

• Industrial and Systems Engineering -Graduate Student Advisory Committee member.
• Statistical learning (Stanford online)
• Data Visualization with Tableau. (Coursera)
• Optimization methods in Business Analytics. (edX)
• Data Management and Visualization (Coursera)