

Piyush Verma

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EDUCATION

University of Cincinnati, Carl H Lindner School of Business, Cincinnati, Ohio

August 2018

Master of Science in Business Analytics | GPA: 3.7/4

IIT Kharagpur, India

Master of Technology in Metallurgical Engineering | GPA: 8.1/10.0

May 2014

Bachelor of Technology in Metallurgical Engineering | GPA 7.6/10.0

May 2013

SKILLS & CERTIFICATIONS

ML: Linear and Logistic Regression, LDA, KNN, Cross-Validation, Lasso and Ridge Regression, Decision Trees, Random Forest, Bagging, Boosting, Support Vector Machine, PCA, K-means clustering, Hierarchical clustering, A/B Testing, Neural Networks, Sentiment Analysis, Recommender System

Libraries: ggplot2, caret, dplyr, tidyr, pandas, numpy, scikit-learn, plotly

Software: [R](#), SQL, Python, SAS, VBA, RShiny, Apache Spark, [Tableau](#), [GitHub](#), Arena, , MS Excel

Certificate: [Data Science Certificate](#) , a 10-course specialization by John Hopkins University on Coursera

EXPERIENCE

Quantum Analytics

Between July 2014 – April 2017

Subject Matter Expert, Sydney Australia (Retail)

- Tasks
- Lead a team of software developers and business analysts to implement a Quantum Solution at client's place
 - Selected from Quantum India to directly support client for 10 weeks (July 2016 – October 2016) in Sydney
 - Supported client's team in building multiple reporting layers in MicroStrategy by transferring data knowledge
 - Responsible for assuring data analysis quality by performing checks and passing metrics
- Results
- Improved scanning of loyalty cards by 5% (~450,000 more weekly transactions)
 - Reported a data discrepancy of weekly sales worth \$40 million missing from the client's database
 - Communicated findings effectively via dashboard that the client revamped its \$500 million loyalty program and introduced a 0.5% base reward earn rate on every transaction

Analyst, India (Retail)

- Tasks
- Used Apache Spark to perform customer segmentation using K-means clustering and Customer Value Model
 - Built a simple propensity model to predict whether a customer is going to redeem a reward coupon
- Results
- Improved client's data understanding and paved way for generating 3 more projects for Quantum

Graduate Analyst, India (Insurance)

- Tasks
- Applied lasso regression to deconstruct competitor's insurance pricing structure to evaluate client's competitiveness for different customer segments (age, claim history, address, driving experience)
 - Added an extra layer of quality check by integrating excel with SQL table and generating premium trends
- Results
- Automated quality assurance checks and modified the excel tool for other insurance products

ACADEMIC PROJECTS

- [Customer Segmentation for a retail supermarket](#): (Customer Value Model, K-medoids)
Used Partition Around Medoids realization of K-medoids to perform clustering of the customers
- [Predicting text using N-Grams](#): (N-Grams, Text Mining, R Shiny, R)
Built an interactive R Shiny web application where a user can enter a string of text and the application would predict the next word. The algorithm used here is Katz Back-Off which uses the conditional probability of a N-Gram
- [Classification of dysfunctional stores](#): (K-means clustering, Hypothesis Testing, HR Analytics)
Built a predictive model for retail client identifying their potential dysfunctional store in future using employee data