

EDUCATION

Hartford, CT	University of Connecticut	Aug 2016 – Dec 2017
<ul style="list-style-type: none">• M.S. in Business Analytics and Project Management. GPA: 4.0/4.0• Coursework: Predictive Modeling, Data Analytics with R, Data Mining and Business Intelligence, Data Science with Python, Business Decision Modeling, Project Risk and Cost Management		
Hamirpur, India	National Institute of Technology	Aug 2008 – May 2012
<ul style="list-style-type: none">• B.Tech in Electronics and Communication Engineering. GPA: 8.3/10		

SKILLS AND TECHNOLOGIES

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- Techniques – Exploratory Data Analysis, Hypothesis testing, Regression analysis, Random forest, Boosting, Clustering, Market Basket Analysis, Linear Optimization
 - Tools – R, SQL, Python (Pandas, ScikitLearn), Tableau, SAS JMP, Informatica, UNIX, Microsoft Excel
 - Certifications – Probability and Data (Coursera), Data Science with Python (Data Camp)

EMPLOYMENT

Promotion Optimization Specialist	Merck & Co. Inc.	Jan 2018 – Present
<ul style="list-style-type: none">• Evaluated the effectiveness of samples in driving product sales by analyzing a pilot program through use of matching and modeling techniques in SAS		
Promotion Optimization Intern	Merck & Co. Inc.	Jun 2017 – Dec 2017
<ul style="list-style-type: none">• Developed panel regression model on physician sales to study promotional effectiveness of various channels• Built a Python framework to calculate abandonment and adherence for various patient segments• Performed hierarchical clustering using market landscape to select geographies for a promotional pilot		
Associate Consultant	ZS Associates	Nov 2013 – Jul 2016
<ul style="list-style-type: none">• Led development of a \$130k self-service reporting solution on MicroStrategy enabling dynamic creation of dashboards and real-time analysis of brand performance• Designed a scalable data management system providing day one visibility into launch trajectory of a drug• Automated the in-house BI tool using UNIX scripting and SQL procedures to analyze dispensing data from 80 pharmacies per week, thereby saving \$90k in operational cost• Created weekly performance reports assisting sales force in profiling their top customers• Analyzed patient journey to generate actionable insights for Client Access team providing patient support• Designed KPIs to quantify the performance of specialty pharmacies for calculating their quarterly payouts		
Software Engineer	Verizon Data Services	Jun 2012 – Oct 2013
<ul style="list-style-type: none">• Automated billing process using ESP and CA7 tools to reduce the testing time of billing plan by 50%		

ANALYTICS PROJECTS

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- **Airbnb booking destination prediction** – Utilized feature engineering and boosted tree based hierarchical classification modeling to predict the booking destination of a customer with an accuracy of ~85%
 - **Travelers claim prediction challenge** – Built a prediction model for claim amount using tweedie distribution and generalized linear model with a resulting Gini Index of 21.12, an improvement of 5% above the baseline
 - **Analysis of patient readmission rates** – Analyzed the impact of HBA1C testing on the readmission rates of diabetic patients; obtained statistically significant results (p-value < 0.002) for patients with a primary diagnosis of diabetes and respiratory diseases
 - **Non-linear regression** – Predicted the out of state tuition fee using Generalized Additive model (GAM), to illustrate its advantages over decision tree based models in interpretability, automation and regularization

ADDITIONAL EXPERIENCE AND AWARDS

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- **Impact Recognition, ZS Associates** – Awarded for outstanding performance as a Technology Associate
 - **Ensemble modeling challenge, Analytics Vidhya** – Ranked 4th out of 1,200 participants in an online challenge