Gautam Doshi

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Education: **North Carolina State University**, Raleigh, North Carolina
M.S. in Industrial and Systems Engineering

University of Mumbai, Mumbai, India
D.J. Sanghvi College of Engineering
B.E. in Production Engineering

Software Skills

Statistical and Data Analysis:	R [2 years] (Data Cleaning, Manipulation & Mining, Exploratory Analysis, A/B Testing, Linear, Multi-variate and Logistic Regression, Time Series, ANOVA Modeling)
Machine Learning:	R, Matlab (Supervised Learning, Gradient Descent, Neural Networks, Decision Trees, Clustering, SVM, PCA)
RDBMS:	MySQL, Teradata
Programming:	R, Matlab, Python
Other Relevant Software:	Google Analytics, Excel - VBA, RSLogix 5000, Workday

Professional Experience

The New School – Temporary Data Analyst – Human Resources   *March 2017 – April 2017*
- Analyzed Payroll reports, found discrepancies in the data and initiated refunds to all wrongly-taxed New School employees.
- Proposed technical changes in the Workday – SaaS system to help generate cleaner reports.

HealthBeMe – Community Research Analyst   *December 2016 – March 2017*
- Analyze data collected on Google Analytics to optimize website and social media engagement strategies.
- Technical improvements to increase content outreach via website and social media which helped us gain 500+ followers.
- Structure digital strategies for offline and online disease Community building.

Engineering For Kids – Lead Instructor   *October 2016 – February 2017*
- Engaged K-6th graders in track-out camps related to STEM where students learn to design, build and test craft-based projects.
- Taught fundamental scientific and engineering principles through fun activities such as LEGO Robotics, Game Design, etc. to groups of 10-15 children with clear presentation, speaking, and leadership skills.

Larsen & Toubro – New Product Engineering Intern   *July 2013 –December 2013*
- Designed and developed new fixtures for machining purposes that successfully modified the product
- Conceptualized, took initiative and developed an assembly fixture which reduced the assembly time by 60%.

Projects

Financial Contributions to Presidential Candidates by State – Exploratory Data Analysis
- Used RStudio to analyze over 134,000 rows of real-time and freely available data of financial contributions made to Presidential Campaigns by the residents of North Carolina.
- Created visualizations, manipulated and explored the data with the help of packages such as 'dplyr','ggplot2', etc. to better understand the patterns and oddities of the contributions made.

Elimination of Mother to Child Transmission of HIV/AIDS - Stochastic Modelling
- Analyzed data in Excel and created a mathematical stochastic model using Markov Decision Processes and presented the results to the Applied Analytics Team of the Clinton Health Access Initiative.
- The model reduced the no. of HIV infected newborns to 3% through optimal treatment policies for mothers in Zambia.

Pinball Machine - Automated Systems Engineering
- Created ladder diagrams, implemented it in RSLogix 5000 and configured the Allen-Bradley PLC programming and wiring, sensors and pneumatic systems to construct a Pinball Machine from scratch.

Volunteering:	● Rotract Club of Mumbai ● Oak City Community Outreach Center
Certificates:	● Managing Big Data with MySQL & Teradata - Duke ● Machine Learning – Stanford
	● Getting & Cleaning Data in R – Johns Hopkins University – Coursera