Dwarkanath (DK) Prabhu

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503 Cherry Street, Apt # 120
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EDUCATION

Texas A&M University, College Station, TX [Aug 2018]
M.S., Industrial Engineering, CGPA: 3.62

IIT Bombay, Mumbai, India [Aug 2012]
B. Tech, Mechanical Engineering

SKILLS

- Proficient in: Excel, R, SQL, Python, Word, Powerpoint
- Familiar with: VBA, Tableau, CPLEX

PROFESSIONAL EXPERIENCE

Texas A&M University, College Station, TX [Sep 2017 – Present]
Graduate Research Assistant

- Automating the production line for a chemical manufacturer *(6-month project)*
- Built an app using Shiny framework for R to plot solutions of a linear programming problem on a map of all locations in the problem by reading in GIS data

Aasaanjobs.com, Mumbai, India [Jan 2015 – Jan 2016]
Marketing Manager

- Recruited and led a team of 6 employees to achieve 10 times growth in web traffic in 6 months
- Achieved 20,000 app downloads in three months since launch at an average cost of $1 per install

Deloitte, Gurgaon, India [Jul 2012 – Dec 2014]
Strategy & Operations Analyst

Mid to long term strategy in India for a leading automobile manufacturer *(4-month long project)*

- Forecasted demand in tier 2 and tier 3 cities from government urbanization reports
- Created buyer personas for all car models using SPSS on data collected from customer survey
- Developed business plan to acquire at least 15% segment market share

Supply Chain Transformation for a leading footwear manufacturer *(10-month long project)*

- Mapped current state value stream using Microsoft Visio for facilities in 2 cities and drafted a future state map to eliminate waste
- Classified data of 100+ manufacturing facilities from SAP of finished goods, raw material and semi-finished goods inventory into 3 cost-based classes
- Formulated aggregate plan optimized for revenue based on demand
- Improved service levels from 65% to 90% and increased rated production capacity by 20%

PROJECTS

Phase I Analysis on Multivariate Data (Class Project) [Oct 2016 – Dec 2016]

- Analyzed a manufacturing dataset of 200+ dimensions and 500+ samples using Python
- Conducted Principal Component Analysis to reduce dimensions to 4 using a scree plot
- Set up T^2 analysis using numpy package to identify out of control data
- Applied Phase I analysis recursively (removal of out-of-control data) till only in-control data was left

Classification of Radar Signals from Ionosphere (Class Project) [Mar 2017 – May 2017]

- Applied classification methods in R such as logistic regression, SVM, trees, LDA etc. on the dataset to predict the signal quality from a radar system as “good” or “bad”
- Achieved the best 5-fold cross validation test accuracy of 92% using the Support Vector Machine method with radial kernel