Moraldeepsingh Sachdeo

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SUMMARY

Graduate Student with 1+ year of professional experience in Operations & Supply Chain domain looking out for Opportunities to enrich my business skills and leveraging use of analytics to improve Supply chains.

EDUCATION

UNIVERSITY OF CALIFORNIA BERKELEY **Aug 2019 - Dec 2020**
Master of Engineering in Industrial Engineering and Operations Research
Technical Coursework:
Supply Chain Management, Optimization Analytics, Risk Modeling Simulation and Data Analysis, Industry Analysis, Applications of Data Analytics, Applied Data Science with Venture Applications (Data-X)
Management Coursework ***[Haas School of Business]****:*
Sustainable Supply chains, Marketing and Product Management, Managing the New Product Development, Big Data and Better Decisions

VELLORE INSTITUTE OF TECHNOLOGY, Vellore, India (4/4) **2014 - 2018**
Bachelor of Technology in Mechanical Engineering | Concentration: Continuous Improvement and Supply Chain | Ranked top **5%** in Cohort

PROFESSIONAL EXPERIENCE

University of California Berkeley **Aug 2019 - Dec 2020**
Graduate Student Instructor (Teaching Assistant) for the largest freshman class : Math 1B (Applications of Calculus)
- Selected amongst **500** Graduate students for this position in the Department of Mathematics at UC Berkeley
- Taught Application of Calculus concepts in Discussion lectures for 2 sections of 30 students each
- Conducted weekly Office Hours and offered career advice

Mercedes Benz India Pvt Ltd, Pune, India **Dec 2017 - Dec 2018**
Operations Trainee
- Part of Flexi-Hub - First International project of Mercedes Benz plant in India to export cars to the United States
- Handled **Logistics and supply chain** of Paint Shop for 4 variants of Mercedes Benz Cars (S, E, C, GLC)
- Handled Negotiations with third party suppliers for ensuring logistics of raw materials on time
- Applied Principles of **Lean Six Sigma** to identify Stations for process Improvement using **SQL** and **Excel** which lead to cost saving of minimum **$15k** annually
- Managed a team of **30** Members to perform mechanical operations on CKD Model of cars
- Presented **20 KPI Statistics**- Key Performance Index charts using **Tableau** for Mercedes Benz India
- Awarded Suggestion Award for improving the workplace efficiency and cycle time of stations by **6 minutes**

Mahindra and Mahindra, Mumbai, India **Dec 2016 - Jan 2017**
Plant Engineering Intern in Leading Automobile Manufacturing Company in India
- Performed **Time and Motion study** using **Maynard Operations Sequence Technique (MOST)** for transmission subassembly line of 5MT
- Assisted in the listing of problems and solutions while routing different plant lines and optimizing material requirement times
- Supervised 20 workers for the assembly work of transmission assembly 5MT & 530 R

SOFTWARE SKILLS

- Programming Languages and Visualisations Softwares: SQL, Python, R Programming, Tableau
- Statistical Software: SAS Studio, Minitab, Free Mind, SAP
- Modeling and Algorithms: Machine Learning, Mathematical Modelling, Statistics, Risk Modelling, NLP

PROJECTS

Improving Manufacturing & Supply chain Lead times via Analytics and Simulation (VSM, SQL, ARENA)
*International Journal of Lean Six Sigma (Published Research Article | **ISSN: 2040-4166** | https://doi.org/10.1108/IJLSS-04-2018-0036)*

- Analyzed the current state of methodology adopted in a bonnet manufacturing industry using SQL and ARENA and optimized the process by designing a future state map using simulation approach
- Interacted with various Stakeholders to identify concerns in the Manufacturing Industry
- Classified and eliminated bottlenecks with the help of various lean techniques and improved VSM efficiency by **18.18%**
- Highlighted a contrast of present and past scenario to underscore the importance of using VSM with Arena Simulation

Natural Language Processing to fight Financial Crime (Python)
- Built Python-driven unsupervised machine learning models, to cluster client text data into interpretable groups that isolate and identify malicious or fraudulent financial activity
- Transformed corpus of project descriptions into model-ready summaries using **NLTK** and RegExp to lemmatize, stem, and translate text
- Researched and assessed the performance of pre trained word embeddings including: **Word2Vec, GloVe, and Facebook fastText**, for **clustering** client text dataset into distinct categories

LEADERSHIP

- UC Berkeley Master of Engineering Ambassador and Admissions Interviewer for the batch of 2021 [Selected amongst 500 Grad Students]