Moraldeepsingh Sachdeo

San Francisco Bay Area, CA| moraldeepsingh@berkeley.edu |+1(510) 646-7721

Linkedin | Website

SUMMARY

Graduate Student with 2+ years of professional experience in Operations, Analytics & Supply Chain looking for Opportunities to enrich my business skills and leveraging analytics to solve complex problems

EDUCATION

UNIVERSITY OF CALIFORNIA BERKELEY   **Aug 2019 - Dec 2020**

Master of Engineering in Industrial Engineering and Operations Research | **Specialization:** Analytics & Supply Chain
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 | **Specialization**: Continuous Improvement & Supply Chain | Ranked top **5%** in Cohort

PROFESSIONAL EXPERIENCE

Beam Solutions, San Francisco, USA   **Aug 2019 - May 2020**

Data Analytics intern | Fraud Analytics Department
- Built a data pipeline for processing and analyzing unstructured, free text data to identify fraudulent financial activities
- Transformed corpus of project descriptions into model-ready summaries using **Natural Language Processing** to structure text data.
- Used **Clustering Techniques** after converting text data into embeddings and validated them by compactness and Separation measures

Imarticus Learning, Mumbai, India   **Jan 2019 - July 2019**

Data Analytics Intern | Sales and Marketing Department
- Collaborated with team members to gather data, Predict and increase Walk Ins rate of customers by **47%** in 3 months which led to an increase in revenue by **$5k**
- Executed Machine Learning algorithms to determine the top **10%** customers for selling product
- Assisted in creating and maintaining Tableau Dashboards presenting quarterly statistics to Management Board

Mercedes Benz India Pvt Ltd, Pune, India   **Dec 2017 - Dec 2018**

Operations Trainee | Supply Chain and Continuous Improvement Department
- Analyzed and **Forecasted demand,** handled **inventory** and daily supply chain plans with **Cross-Functional collaboration** with other teams
- Prepared Mercedes Benz India's **KPI Metrics** using **Tableau** for presentation at weekly Kaizen & CIW Meetings with upper management
- Handled Supply chain disruption **Negotiations** with various stakeholders in real time with support of local and international teams
- **Forecasted** number of defects using Regression and other **Lean Six Sigma tools** to identify Stations for process Improvement using **SQL** and **Excel** which lead to cost saving of minimum **$15k** annually

SOFTWARE SKILLS

- Programming Languages and Visualisation Softwares: SQL, Python, R Programming, Tableau, QlikView, Power BI, Excel VBA & Macros
- Statistical Software: SAS Studio, Minitab, Free Mind, SAP
- Modeling and Algorithms: Machine Learning, Mathematical Modelling, Statistics, Risk Modelling, Predictive Modeling

PROJECTS

Improving Manufacturing & Supply chain Lead times via Analytics and Simulation (SQL, ARENA, VSM) (*Research Paper Link*)
- 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 improving accuracy by 18.18% using Lean Six Sigma Tools

Predicting Pedestrian Intention in Real Time for Autonomous Cars (*Project Website* | *Research Paper Link*)
- Analyzed information from videos acquired using vehicle's front-facing cameras to deliver an end-to-end system taking an input video and providing a video output with all the analysis without any intermediate break-downs that can interface with functionalities for smart collision avoidance in autonomous driving

Bike Sharing Analysis (SQL, Python, Tableau)
- Forecasted the number of station based bike trips using a regression model after web scraping to determine which amongst the features like: weather, demographics statistics, near-by business, bus stations, parks and recreations facilities affect bike usage

Credit Risk Analysis (Python)
- Built a predictive model with accuracy of 82.5% for the banking company by scoring the lender's propensity to be a defaulter, and exploring the variables associated with it, helping them to build strategies. Validated the proposed model using Cross Validation

LEADERSHIP & MANAGEMENT

- Product Management Experience Developing a B2B Platform & Go to market Strategies for connecting OEMs and Buyers (Link)
- UC Berkeley Master of Engineering Ambassador and Admissions Interviewer for the batch of 2021 [Selected amongst **500** Grad Students]
- Graduate Student Instructor - Math 1B (Calculus) & Innovation Navigation and Management (Haas School of Business)