Mayank Modashiya

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PROFESSIONAL SUMMARY

An avid Data Science Professional with over 3.5 years of experience in enabling insights driven strategic business decisions in Supply Chain Industry encompassing warehousing, transportation and e-commerce

EXPERIENCE

Kenco Group | www.kencogroup.com **Chattanooga, Tennessee**
Data Scientist Feb 2022 – Present

- **Reduced labor cost by 3.5%** and **travel distance by 5%** by creating a **SKU velocity predictor**
- **Avoided $ 500K in pain share payment** by creating a warehouse recovery prediction model
- **Improved Transportation service level by 3%** by creating a Carrier's on time performance model of 83% accuracy
- Creating technical architecture to enable development and growth of AI/ML
- Collaborating in creating decision support dashboard to enable data driven decision making
- Mentoring 2 associate data scientist and mentored a graduate student in his AI/ML capstone project

Associate Data Scientist July 2019 – Jan 2022

- **Saved $ 1.75 Million in labor cost** by creating **volume predictor** for 5 sites with an average accuracy of 89%
- **Saved $ 435,000 in pain share avoidance** by creating warehouse **recovery model** for a distribution network of 4 sites
- **Saved $ 125,000 in labor cost** by creating **labor predictor** for a site's five major activities with error of ± 1 FTE
- **Reduced turnover by 2%** for one site by creating **volume predictor** with 85% accuracy and with **labor estimator dashboard** that helps to plan for different scenarios
- Created **warehouse capacity forecasting** model for next 12 months with an accuracy of 89%
- Mentored a team of 3 graduate students in their AI/ML Capstone project

Supply Chain Solutions Engineering Co-op Jan 2019 – May 2019

- Created **one stop sensitivity analysis Qlik dashboard** for the company to monitor key performance metrics
- Created **sensitivity analysis dashboard** to identify opportunity cost/savings for pain share/gain share customers
- Created sales dashboard for potential customers to share company's performance with similar profile

SKILLSET

Programming Languages: Python, C, C++, SAS, R

Machine Learning: K-means, SVM, Tree based Models, Gradient Boosting Techniques, Regression Techniques,

Deep Learning: Artificial Neural Networks, Recurring Neural Networks, Convoluted Neural Networks, LSTM

Data Visualization Tools: Qlik Sense, Power BI, and Tableau

Cloud: AWS (S3, SageMaker, EC2, Step functions, Athena, Glue, Redshift), Azure, Google, and Git (version control)

Data Science Approach: CRISP DM Methodology, Agile Methodology, CI/CD Methodology

EDUCATION

Master of Science, Industrial Engineering: GPA: 3.75 **Graduated:** May 2019
University of Texas at Arlington. **Coursework** includes Applied Regression Analysis, Simulation and Optimization, Operational Research, Logistics Transport System Design, Facilities Planning and Design, Statistics etc.

Bachelor of Engineering, Mechanical Engineering: **GPA: 3.24** **Graduated**: May 2016
Gujarat Technological University. **Coursework** included Calculus, Vector Calculus and Linear Algebra, Advanced Engineering Mathematics, Operation Research, Industrial Engineering, Computer Programming and Utilization etc.

ACADEMIC PROJECT

Simulation and Optimization: Designed a new Solar Panel Production plant. Developed process map, performed cost v/s production analysis, estimated unit/price considering depreciation, taxation, and fixed cost

Applied Regression Analysis: Created a multiple regression model to predict the price of bitcoin. Applied regression concept such Weighted Least Square, Model transformation, validation of model and data