Mehul Sharma

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EDUCATION

Master of Science in Industrial Engineering	August 2019 – May 2021
Arizona State University, Tempe, USA	GPA – 3.4/4
Bachelor of Engineering in Mechanical Engineering	August 2015 – May 2019
Gujarat Technological University, Ahmedabad, India	GPA - 8.0/10

TECHNICAL SKILLS

Programming Language:	Python, R, SQL, Visual Basic, AMPL, TSQL, NoSQL, Hadoop, Scala
Statistical Tools:	SAS, JMP, Minitab, MS Excel(Macros), Oracle ERP, CPLEX, ERP, SAP, PowerBI
Visualization Tools:	Tableau, QlikView, Python (matplotlib), MS Office
Database:	MySQL, SQL Server, Oracle SQL Developer, Toad, PostgreSQL, MS Access, MongoDB, ETL, AWS, SSIS
Tools:	Visual Studio, Jupiter Notebook, Jupiter Lab, Agile, git, Outlook

WORK EXPERIENCE

Business Process Analyst Intern – Cavalry Portfolio Services, Phoenix, USA April 2021 - Present

- Enhanced the user experience by fine-tuning stored procedures and SQL queries for efficient extraction, transformation, and loading (ETL) of ~2 M records from Oracle and SAP databases, using SSIS, MS Visual Studio, and MS Access.
- Managed QlikView dashboard platform for data warehousing to develop and maintain Key Performance Indicator (KPI) to perform ad-hoc reporting using MS Excel to increase the throughput and utilized them for further Online Analytical Processing (OLAP)
- Improved the cost penalizing model by optimizing complex python scripts and SQL queries which led to the increment of Net liquidation by 7% by implementing an extra 10% penalty over the consecutive multiple-placement of accounts for legal processes.
- Led the advanced insight initiative for more robust system state monitoring for tracking the improvement on each individual account for tracking for any common anomaly by following Agile framework principles.

Data Analyst – Shakti Engineering, Ahmedabad, Gujarat, India May 2018 – May 2019

- Reduced customer complaints by performing root cause analysis for recurring defects and implemented automated statistical process control measures which result in augmented quality, productivity, and customer satisfaction.
- Liaised with stakeholder for a better understanding of the business problem and performed a deep analysis in Tableau to identify the critical metrics and key performance indicator which led to maximize the customer retention rate
- Developed quantitative models to calculate employee compliance for workforce planning using exponential smoothing methods. Highlighted employee utilization metrics with customized drivers using Power-BI
- Mentored the incoming Data Analyst and built comprehensive documents for streamlined workflow knowledge transfer

Business Intelligence Analyst intern – Orient Cement Ltd, Telangana, India Jan 2017 – Jan 2018

- Made backend REST APIs using Python that interacted with the UI visa python Flask and interacted with the MySQL database on Visual Studio Code, MySQL workbench and used Postman to test the APIs
- Reduced 5% of holding cost by reducing the overage inventory using the Seasonal ARIMA model (Python) for Forecasting the demand correctly with an accuracy of 92% which further led to better lead time and minimized inventory holding complexity
- Actively participated in Software Development Life Cycle (SLDC) and transferred the information to the IT Project teams for betterment of information transfer and smooth operation

INDUSTRY PROJECTS

Predicting of Monthly Electricity Consumption and Monthly Maximum Temperature Jan 2021 – April 2021

- Forecasted the future seasonal temperature in the city by analyzing temperature time series data and built Holt-Winter forecasting Model and ARIMA Seasonal Model in Python
- Developed transfer function model to illustrate the relationship between Electricity Consumption and Maximum Temperature and achieved forecasting accuracy of 97.6% using the Seasonal ARIMA model in temperature forecasting.

Classification using ML – Diabetes problem Aug 2020 – Dec 2020

- Optimized python scripts and SQL queries to perform data cleaning and feature engineering on huge dataset loaded from BigQuery
- Trained and tested various Machine Learning models in python language and was able to achieve 86.07% accuracy and a Balanced error rate of 0.266 for prediction for Decision tree Classifiers which is 20% more accurate than ADA Boosting Classifiers.

Author Classification - Avilla Bible author classification Jan 2020 - May 2021

- Processes data by imputing missing values and handling class imbalance using the sklearn imputer module. Trained Neural Net, Support Vector, and Decision tree models on a split of 85% of the Avilla bible author dataset (Scikit)
- Achieved a 99% train and 90% test accuracy with decision tree by hyperparameter tuning using the grid-search module.

Generalized Lot Sizing – Production-Warehousing Model Aug 2019 – Dec 2019

- Generated a Google Map API Key to access and retrieve data from Google maps by Python code to produce the distance matrix for 25 nearby most populated cities to the metropolitan area of Saint Petersburg in Russia.
- Optimized cost from 143 million to 32 million by applying a Mathematical Mixed Integer programming model in AMPL with CPLEX solver for optimal decisions to locate production units and warehouses to meet quarterly demands of each city