SHYLESH PALA

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EDUCATION

University of Connecticut, Hartford, Connecticut **Dec 2022**

Master of Science in Business Analytics and Project Management

Related coursework: Data Management and Business Process Modeling, Predictive Modeling, Statistics, Project Management, Data Mining and Business Intelligence, Data Science using Python, Visual Analytics

M.S. Ramaiah Institute of Technology, Bangalore, India **Aug 2018**

Bachelor of Engineering in Mechanical Engineering

Related coursework: Advanced Calculus, Probability & Statistics, C++, Artificial Intelligence, Robotics, Operations Research

SKILLS

Tools: SQL, Python (NumPy, Pandas, Scikit-learn, Kera's, TensorFlow, GeoPandas, PyTorch), R Programming, SAS, Microsoft Project, Advanced Microsoft Excel, Hadoop

Visualization Tools: Tableau, JMP Pro, Power BI, Python (Matplotlib, Seaborn, Plotly, Folium)

Analytical techniques: Linear Regression, Logistic Regression, Decision Trees, Random Forests, KNN, SVM, Boosted Trees, Clustering, Statistical Analysis, Principal Component Analysis, Exploratory Data Analysis, Predictive Modeling, Data Collection, Data Cleaning, Data Mining, A/B Testing, Hypothesis Testing, Probability Distributions, Data Warehousing, Word2Vec, Machine Learning, TF-IDF, Natural Language Processing.

Certifications: Python (DataCamp), SQL (DataCamp), Jira Fundamentals (Atlassian)

ACADEMIC PROJECTS

Marketing Analytics: Predicting customers' response to a product advertised in a campaign. – Python & JMP Pro **Aug 2021**

Performed exploratory data analysis, data cleaning, feature engineering, exploratory, and statistical data analysis. Developed different predictive models (Logistic regression, decision tree, boosted tree, Neural network, KNN, & SVM) and compared their Predictive Power. Discovered which clients to target for future campaign offerings and increased campaign acceptance by 30% based on various underlying features and revelations.

Churn Analysis for Bank Data - Python **Aug 2021**

Developed a Logistic Regression model to predict customer churn rate based on their transactional behavior. The valuable insights from this project improved customer retention by 25%.

Centralization of doctor appointment booking. – MySQL & Lucidchart **Sep 2021**

Built a centralized database system that uses a digitalized process by using enhanced ERD's to capture patient-doctor appointment history and comprehensive patient records. We addressed different business queries using MySQL.

Air Pollution Dashboard – Tableau **Jan 2022**

Built an interactive dashboard about the pollution level in the atmosphere. Figured out which contaminants are responsible for the different health concerns and found out the most polluted cities in the world. Estimated how the air quality index would change over time while providing solutions for reducing air pollution.

Restaurant Recommendation System – Python (Pandas, Geopandas, Folium, Scikit-Learn) **Feb 2022**

Analyzed customer data using EDA and designed a recommendation system using ML techniques. Suggested a restaurant to a user based on his location.

WORK EXPERIENCE

Kraycol Stationery Private Limited - Bangalore, India **Dec 2019 – June 2021**

Production Data Analyst

- Created a new logistics plan for part movement in Power BI that aided in finding the bottlenecks. Led to better Allocation of resources resulted in improved performance, better inventory management & helped in tracking the performance of all the employees.
- Coordinated with cross-functional teams in the relocation of the Production plant and designed a Plant layout that corresponded to the flow of materials in the production line which increased the production output per day by 10%.
- Assisted and led two new hires on a pilot project that handled data collection and insight generation. The project resulted in an additional revenue of $20,000.

Toyota Industries Engine India - Bangalore, India **Oct 2018 – Oct 2019**

Graduate Apprentice Trainee

- Utilized Advanced Excel (VLOOKUP/ XLOOKUP & Pivot Tables) and Tableau to identify solutions and reduce costs by $100,000 per month in the production plant.
- Attached sensors to various CNC machines and used IoT to monitor the various parameters of the tool. This reduced tool breakages and reduced the cycle time of several machines by 10 seconds. This project boosted the safety of the workers working with the equipment while improving the quality metrics by 15%.
- Trained in Agile concepts and implemented them on the shop floor, which improved the performance of several processes. Managed and kept track of the different projects that I was part of through JIRA.