Herleen Kaur Sanhotra

WORK EXPERIENCE

WithMe Health, LLC   **Seattle, WA**
Data Analyst   Sept 2021-Present
- Lead a team of two, providing guidance, mentorship, and fostering a collaborative work environment to achieve project goals and deliver high-quality data analysis and insights
- Analyze and process healthcare data for 200k patients including medical claims, pharmacy claims and diagnosis using AWS Athena and Python to extract actionable insights to support clinical research and drive data driven decision making
- Serve as owner of BI platform overseeing the maintenance of existing dashboards and reports, ensuring data accuracy and integrity, and providing continuous enhancements to meet evolving business needs
- Manage and automate key business processes, established 20+ KPIs, and utilize MicroStrategy to measure various business operations, resulting in a 25% increase in process optimization and performance tracking
- Collaborate with stakeholders to understand project requirements, establish priorities, & deliver insights that inform strategic decisions

PROFESSIONAL PROJECTS

Data Migration to new BI platform:
- Managed migration of reports and dashboards from one BI platform to another, ensuring a seamless transition and minimal disruption to ongoing operations
- Conducted a comprehensive analysis of existing reports and dashboards, identifying data sources, calculations, and dependencies to develop a migration plan
- Collaborated closely with IT teams and business stakeholders to execute the migration plan, ensuring data integrity, accuracy, and accessibility in the new BI platform

Regulatory Reports:
- Developed and implemented regulatory reporting processes to ensure compliance with industry regulations and requirements, meeting the specific needs of the business
- Proactively monitored changes in regulatory requirements and made necessary adjustments to reporting processes, ensuring ongoing compliance and alignment with evolving regulation

ACADEMIC PROJECTS

Predicting Severity of Traffic Accidents in US
- Led a team of 5 to construct a prediction system determining accident-prone areas using predictive analysis
- Ingested data with 3M records in **Bigquery**; cleaned data and designed dashboards to visualize high accident-prone states
- Executed feature selection reducing dimensionality of data by 45%; applied time series analysis to find monthly accident counts

Walmart Store Sales Forecasting
- Performed exploratory data analysis on historical dataset with 400K records; forecasted weekly sales with regression models
- Manipulated data to structure and standardize features utilizing **NumPy** and **Scikit-Learn;** identified trends in sales markdowns
- Planned and managed project life cycle with CRISP-DM framework; streamlined existing models to optimize performance

EDUCATION

University of North Carolina at Charlotte,   **Charlotte, NC**
Master of Science in Computer Science, Specialization in Data Science   Graduation Date: May 2021
University of Mumbai   **Mumbai, India**
Bachelor of Engineering in Computer Engineering   Graduation Date: May 2017

TECHNICAL SKILLS

- Programming Languages: Python, Advanced SQL
- Data Science and Analytics Skills: Data Preprocessing, Data Mining, Data Manipulation, Data Visualization, DDL, DML
- Visualization Tools: Domo, Microstrategy, Tableau, Amazon Quicksight, Google Data Studio
- Data Analysis Tools: Athena Notebooks for Apache Spark, EMR Notebooks, Jupyter Notebooks, Google Colab
- Cloud Computing Services: Amazon S3, Amazon Athena, Google Cloud Storage, Google Bigquery