# Name: Afreen Nikhat (Data Analyst)

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# Education: Bachelors of Computer Science Engineering & Technology in 2008

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# An achievement-driven individual seeking further opportunities.

Teamwork-oriented, motivated, skilled, and responsible Data analyst with 8+ years of industry experience and 7 years of Data Analyst experience. Excellent work ethic accompanied by the ability to assimilate into any environment with confidence. Strong experience in data profiling, data migration, data conversion, data quality, data integration, and data manipulation.

* Experienced in data modeling with expertise in creating Fact and Dimension tables, and physical and logical data modeling.
* Experienced in producing solution-driven dashboards by developing different chart types such as Pie/Bar Charts, Crosstabs, Circle Views, Heat/Geo/Tree Maps, Line/Area Charts, Scatter Plots, Histograms, and Bullet Graphs in Power BI.
* Robust analytical skills and capability to use diverse software such as R Studio and Power BI.
* Data wrangling, plotting, data analysis, and data modeling in R studio
* Experience in using various packages in R and python like ggplot2, dplyr, Rweka, gmodels, rjson, plyr, pandas, numpy, seaborn, SciPy, matplotlib, and sci-kit-learn
* Extensive experience in text analytics, generating data visualizations using R, python and creating dashboards using BI tools
* Hands-on experience with a full range of BI Skills using MS SQL Server, SQL, and Power BI.
* Experience in configuring reports from different data sources using data blending.
* Experience in using variables, expressions, functions, and defining Query for generating reports in R studio.
* Proficiency in Power BI advanced analysis features like Calculations, Parameters Trend lines, and forecasting.
* Experience in developing data visualization using Power BI.
* Expertise in Power BI reporting tools, Power BI Dashboards Developments & Server Administration.
* Good understanding of Relational database design, data warehouse concepts, and methodologies.
* Worked on analyzing large datasets on distributed databases and developing Machine Learning algorithms to gain operational insights.
* Excellent communication, interpersonal, and analytical skills and the ability to perform in a team as well as individually.

# Technological Skills:

|  |  |
| --- | --- |
| Analytical Tools | Power BI, Tableau, Pandas |
| Reporting Tools | Power BI, Excel, Tableau |
| RDBMS | SQL, Microsoft SQL Server |
| ETL Tools | Microsoft SQL, SQL Server Integration Services |
| Programming Languages | SQL, R, Python Mat lab |
| Statistical Analysis Methods | Regression Analysis, Hypothesis testing |
| Software and Tools | MSOffice, R studio, Visio, Lucid Chart |

**Certificates**

Innovatics - Data Science and AI Certificate (12-months training program in data science and AI)

**Work Experience:**

**Frankenmuth Insurance, MI Aug 2022 to Present**

# R Programmer/ Data Analyst/ Data Governance

* + Researching, developing, and maintaining statistical reporting models in R.
  + Provide simulations, data analyses, and data visualizations with the R package.
  + Assist in designing and developing technical architecture, requirements, and statistical models.
  + Perform data collection, data cleaning, report findings, and develop strategic use of data by python libraries like NumPy, Pandas, SciPy
  + Develop python scripts to clean raw data.
  + Coordinate with teams for designing and implementing of analytics solutions as per project proposals.
  + Formulate procedures for integration of R programming plans with data sources and delivery systems.
  + Utilized Google BigQuery to extract, transform, and analyze large datasets, enabling data-driven decision-making.
  + Work on Shiny and R applications showcasing machine learning for improvement of data reports.
  + Generate graphs and reports using ggplot package in RStudio for analytical models.
  + Automate different workflows, which are initiated manually with python scripts
  + Work on predictive analytics use cases using python language.
  + Perform data visualization and design dashboards on Tableau and Power BI and generate complex reports including charts, summaries, and graphs to interpret the findings to the team and the leadership
  + Developed and maintained OLAP cubes to support business intelligence and reporting needs, enabling users to analyze data from multiple perspectives.
  + Developed and maintained data pipelines using Google Cloud Dataflow to ingest and process real-time streaming data.
  + Provide technical assistance for the development and execution of test plans and cases.
  + Program code of qualitative variable and manipulation tasks with various statistical methodologies

**Environment**: SQL, Tableau, R programming, Power BI, MS Office, Python, Visio, Lucid chart

# Covenant woods, Mechanicsville, VA Jul 2021 to Sep 2022 Data Analyst

* Administered and analyzed links between customer attitude with user behavior and product usage data.
* Developed calculations to measure NPS, product usage, and Financial Confidence,
* Outlined and automated interactive KPI dashboards with sentiment scores in Tableau
* Developed interactive visualizations and dashboards using Tableau that enabled business users and executives to explore product usage and customer trends.
* Created custom SQL queries on various databases such as Teradata, MySQL, DB2for data analysis and data validation.
* Collaborated with cross-functional teams to identify business requirements and implemented machine learning models using Google Cloud AutoML for predictive analytics and forecasting.
* Experienced in developing Business logic in semantic later by creating views in AwS Redshift to provide transformation logic visibility.
* Used pandas as API to put the data as time series and tabular format for manipulation and retrieval of data.
* Designed and implemented OLAP models using tools such as Microsoft Analysis Services or Oracle OLAP to improve data analysis efficiency and accuracy.
* Leveraged Google Cloud Storage to store and manage structured and unstructured data, ensuring data availability and accessibility.
* Experienced in Architecture Design for Multistate implementation or deployment
* Analyze and format data using Machine Learning algorithm
* Performed data profiling and analysis on many datasets like customer profile data, contact history, branch hierarchy, and email campaign data.
* Deployed web analytics data in extracting business insights and visualized the trends from the customer events tracked.
* Analyzed and developed reports using customer transactional data to create multi-dimensional customer segmentation based on the frequency of usage and product usage.
* Clean Data in Power BI using Cleaned with Data Interpreter.
* Created interactive dashboards and visualizations using Google Data Studio to communicate insights and trends to stakeholders.
* Configured data extraction and scheduled step-by-step refreshes for data sources on the Tableau server to improve the performance of reports.
* Created interactive dashboards and visualizations using Google Data Studio to communicate insights and trends to stakeholders.
* Experienced in implementing one-time Data Migration of Multistate level data from SQL server to Snowflake by using Python and SnowSQL.
* Assisted in developing working documents to identify and get access permissions to database resources.

**Environment**: SQL, Tableau, Power BI, MS Excel, Windows 8, Python, Snowflake, Aws

**Client: Amgen, Thousand Oaks, CA Jun 2020 – Jun 2021**

**Role: Data Analyst/BI Developer**

**Responsibilities:**

* Possess and applies a broad knowledge of principles, practices, and procedures of field of specialization to the completion of difficult assignments.
* Responsible for daily communications to management and internal organizations regarding status of all assigned projects and tasks.
* Created and maintained ETL pipelines to extract data from various sources and load it into OLAP cubes for analysis.
* Perform and oversee the performance of Design to develop technical solutions from Analysis documents. Integrated custom visualizations based on business requirement using tableau
* Provided continued maintenance and development of bug fixes for existing and new power BI reports. Assisted in verifying installed Source systems to ensure that they adequately meet user requirements. Extensively created visualization dashboards for the claims.
* Developed and maintained interfaces between healthcare information systems using HL7 standards, ensuring accurate and timely exchange of data.
* Collaborated with cross-functional teams to identify business requirements and implemented OLAP-based solutions to support data-driven decision-making.
* Analyzed HL7 messages to identify data quality issues, and implemented data cleansing and transformation techniques to improve data accuracy and completeness.
* Worked with clinical and technical teams to design and implement HL7 interfaces for new systems, ensuring compatibility with existing systems and adherence to HL7 standards.
* Utilized HL7 messaging for clinical data integration, supporting interoperability between different healthcare information systems and facilitating data exchange between providers.
* Conducted data mapping and translation between HL7 and other healthcare data standards (e.g. FHIR), enabling seamless data exchange between different systems and improving data accessibility for analysis.
* Designed and developed ETL packages using SSIS to extract data from various sources, transform it according to business rules, and load it into a centralized data warehouse for analysis.
* Created and maintained SSRS reports to provide business insights and data visualization, allowing stakeholders to make informed decisions based on accurate and timely data.
* Worked with technical teams to optimize SSIS and SSRS performance, improving data processing speed and report generation time, resulting in faster insights delivery.
* Analyzed claim data to identify patterns and trends, and developed reports and dashboards.
* Worked with claims processing teams to identify areas for improvement, and data-driven recommendations to optimize claims processing and reduce errors.
* Developed and maintained claims data models, ensuring data accuracy and completeness, efficient analysis and reporting.
* Collaborated with cross-functional teams to develop predictive models using claims data, improving fraud detection, risk assessment, and claims forecasting.
* Conducted analysis of medical claims data using ICD-10 codes to identify patterns and trends in patient diagnoses and treatments.
* Worked with healthcare providers to ensure accurate and complete documentation of patient diagnoses and treatments using ICD-10 codes, improving claims processing efficiency and reducing payment denials.
* Collaborated with cross-functional teams to develop predictive models using ICD-10 and NDC codes, improving risk assessment, care management, and claims forecasting.

**Environment:** MICROSOFT SQL Server 2016, T-SQL, Tableau, DAX, Microsoft (Word, Access, Excel, Outlook) SSIS, SSRS,Claim Processing HL7, iCD-10,NCD Codes

# Baxter International, Deerfield-IL Jun 2019 – May 2020

# Data Analyst

* Analysis of customer database using MySQL.
* Analyzed sales and marketing data using Google analytics.
* Analysis of Patients’ data using SQL.
* Worked deeply in Calculations, Parameters, Trend Lines, and Statistics to create detail-level summary reports of customer data.
* WordPress CMS with Woo Commerce e-commerce for full automation of payment processing, order confirmation, and email marketing campaign.
* Used various SQL reporting skills to create SQL views and write SQL queries.
* Collecting data and business requirements from end users and management. Designed
* Prepared scripts in python for the automation of administration tasks.
* Developed customers profiles along with reports using python and Power BI, analytical results, and strategic implications to senior leadership for strategic decision making
* Experienced in developing ETL Pipelines in and out of data warehouse, develop major regulatory and financial reports using advanced SQL queries in Snowflake.
* Performed data manipulation on extracted data using Python Pandas.
* Expand best practices, standards, and processes for effectively carrying out data migration activities. In addition, Work across multiple functional projects to understand data usage and implications for data migration.
* Prepare data migration plans including migration risk, quality, milestones, and business sign-off details.

**Environment:** SQL, Power BI, Microsoft Office, Python, Tableau, Aws.

# Berkley Mid-Atlantic Group, Glen Allen, VA Mar 2018- Apr 2019 Data Analyst

* Implemented data exploration to analyze patterns and select features using python SciPy.
* Built factor analysis and cluster analysis models using python SciPy to classify customers into different groups
* Developed and implemented R and shiny application to showcase machine learning for business forecasting
* Worked on Architecture design to migrate current ETL jobs to Cloud using Attunity Replication, AWS Redshift and snaplogic Framework.
* Organize data and perform analysis using R, Excel, and Tableau
* Choose suitable approaches, analytical and statistical designs, and data management to meet objectives.
* Construct methods to analyze diverse datasets.
* Contribute to the writing of study proposals and reports, including statistical analysis sections and Data Management.
* Extract data from databases, develop projections, statistical analyses, and curve fitting.
* Record procedures for statistical analysis, data extraction, organization, and storage
* Develop measures for resourceful data extraction and re-use of statistical analysis processes.
* Develop data dictionaries as required for Reporting and Presentations.
* Aided in the write-up and presentation of the results appropriate for the intended audience.
* Involved in testing and executing the SQL Scripts for report development, Power BI reports, Dashboards, and Scorecards before publishing
* Wrote SQL statements, stored procedures, and Triggers for extracting as well as writing data.
* Develop presentations to project proposals or reports, and present at the appropriate forum.

**Environment**: Microsoft Excel, R studio, SQL, Tableau, Python

# DRB Capital, Delray Beach, FL Feb 17 – Apr 18

**Programmer Analyst**

* Communicated and coordinated with different departments to provide reports for business and research needs.
* Used Pandas, NumPy, Seaborn, SciPy, and Matplotlib in python for developing various machine-learning algorithms and utilized these algorithms such as linear regression, multivariate regression, random forests, and K-means for data analysis.
* Work with R shiny to create visually powerful and actionable interactive reports and dashboards
* Work with the lead analyst to define and implement data strategies to support the needs of various products across brands.
* Performed testing of existing code and then developed several code improvements.
* Collaborated and influenced product teams to make data-driven decisions.
* Monitored, reported, and diagnosed trends in KPIs, automating wherever possible.
* Managed data from its raw format to an output of a comprehensive dashboard
* Designed and developed weekly, and monthly reports related to the marketing of clients using SQL.
* Used SQL and Windows batch programming techniques to code the technical specifications apply business logic and produce automated reporting solutions.
* Visualized and presented the data using Tableau enabling business users and executives to explore market trends.

**Environment:** SQL, Tableau, Python, R, Power BI, Excel

# XFACTOR IT SERVICES, Hyderabad, India Jul 2013 to Jun 2016 Programmer Analyst

* Performed Data analysis on many critical projects through which some of the critical business decisions will be made.
* Performed Data Analysis, Data Migration, Data cleaning, Transformation, Integration, Data Import, and Data Export through Python.
* Used packages like dplyr, tidyr & ggplot2 in R studio for data visualization and generated scatter plots and high-low graphs to identify the relationship between different variables.
* Involved in projects to improve customer sentiments and build models in R shiny
* Worked on Data Verifications and Validations to evaluate whether the data generated is appropriate and consistent.
* Developed logistic regression models using R programming and Python to predict employment response rates based on customer variables like demographics, interests, experience, and skill set.
* Optimized the data environment to efficiently access data Marts and implemented efficient data extraction routines for the delivery of data.
* Designed and developed weekly and monthly reports related to the marketing and financial departments using SQL.Designed and Developed Oracle SQL and Shell Scripts, Data Import/Export, Data Conversions, and Data Cleansing
* Analyze, design, code, test, implement and support data warehousing extract programs and end-user reports and queries.
* Built a python class where the objects were batch jobs depending on their severity.
* Worked with data investigation, discovery, and mapping tools to scan every single data record from many sources.

**Environment**: R programming, Python, SQL, MS Office