

Data Analysis Presentation

by

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A Data /Business Intelligence Analyst with over 10 years of strong experience in performing analysis reporting, creating, and maintaining data migration design documentation, risk assessing, data mining, developing logical data models, and implementing data integration solutions across various industries.

Presentation Covers My Recent Job Experience

To showcase my skills and experience as a Data Analyst, and explain how I can contribute to the success and growth of your organization.



Introduction

1 Experienced Analyst

A Data /Business Intelligence Analyst with over 10 years of strong experience in performing analysis reporting, creating, and maintaining data migration design documentation, risk assessing, data mining, developing logical data models, and implementing data integration solutions across various industries.

2 Recent Job Experience

Presentation Covers My Recent Job Experience

3 Showcase Skills

To showcase my skills and experience as a Data Analyst, and explain how I can contribute to the success and growth of your organization.

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Why Data Analysis?

1 Meaningful Impact

The ability to make a meaningful impact

2 Extensive Experience

Over 10 years experience in Data Analysis

3 Data-Driven Decision Making

Facilitated data-driven decision-making

4 Diverse Projects

Worked on various data Projects



Data Analysis Process

1

Data Collection

I gathered data from reliable primary and secondary sources to ensure its relevance to business objectives.

2

Data Cleaning

I removed duplicates, corrected errors, and handled missing values, standardizing data formats for consistency.

3

Data Validation

I cross-checked data for accuracy and completeness, validating it against source systems and business rules.

4

Data Modeling

I developed both logical and physical data models, defining relationships and dependencies within the data.

5

Data Analysis

I employed statistical techniques and tools such as SQL, Python, and Power BI to identify trends, patterns, and correlations.

Data Analysis Tools & Techniques

Excel

I used Excel to perform basic data analysis, create pivot tables, and develop visualizations for clear insights.

SQL

I queried databases, performed data extraction, and conducted complex joins to retrieve and integrate data.

Python

I utilized libraries like Pandas and NumPy for data manipulation and statistical analysis, and automated data processing tasks with scripts.

Power BI & Tableau

I created interactive dashboards and visualizations in Power BI and Tableau to provide insightful reporting and support data-driven decision-making.

Data Collection

Data Collection Methods

Data Sources: I extracted data from databases and other relevant sources to ensure comprehensive data collection.

Methodology: I combined and cleaned data from various sources to ensure its accuracy and completeness.

Challenges in Data Collection

Data Inconsistencies:

Solution: I developed standardized data cleaning processes to ensure uniformity across datasets.

Missing Data:

Solution: I implemented imputation techniques and cross-verified missing data with secondary sources to fill gaps.

Data Cleaning and Preparation

Data Cleaning

I tackled duplicates, corrected errors, and addressed missing values to ensure high-quality data. Standardized formats and worked to maintain consistency across all datasets.

Data Validation

Cross-checked data with source systems and business rules to verify its accuracy.

Data Preparation

Organized the data into structured formats that were ready for analysis. Developing new metrics and variables, helped me to provide deeper insights and enhance the overall analysis.

Handling Missing Data

Used statistical methods to estimate and replace missing values. Cross-checked with secondary data sources to fill gaps. Excluded non-critical records with excessive missing data. Employing algorithms to predict and fill in missing data based on existing patterns was very helpful.





Data Testing



Ensures data accuracy

Data testing verifies the correctness of data



Improves data quality

Testing enhances overall data quality



Reduces risks

Minimizes the risk of using incorrect data



Saves time and resources

Prevents issues caused by bad data

Data Analysis and Visualisation

Analysis

I translated insights from the datasets into actionable recommendations, providing clear guidance to support strategic decision-making and improve business outcomes.

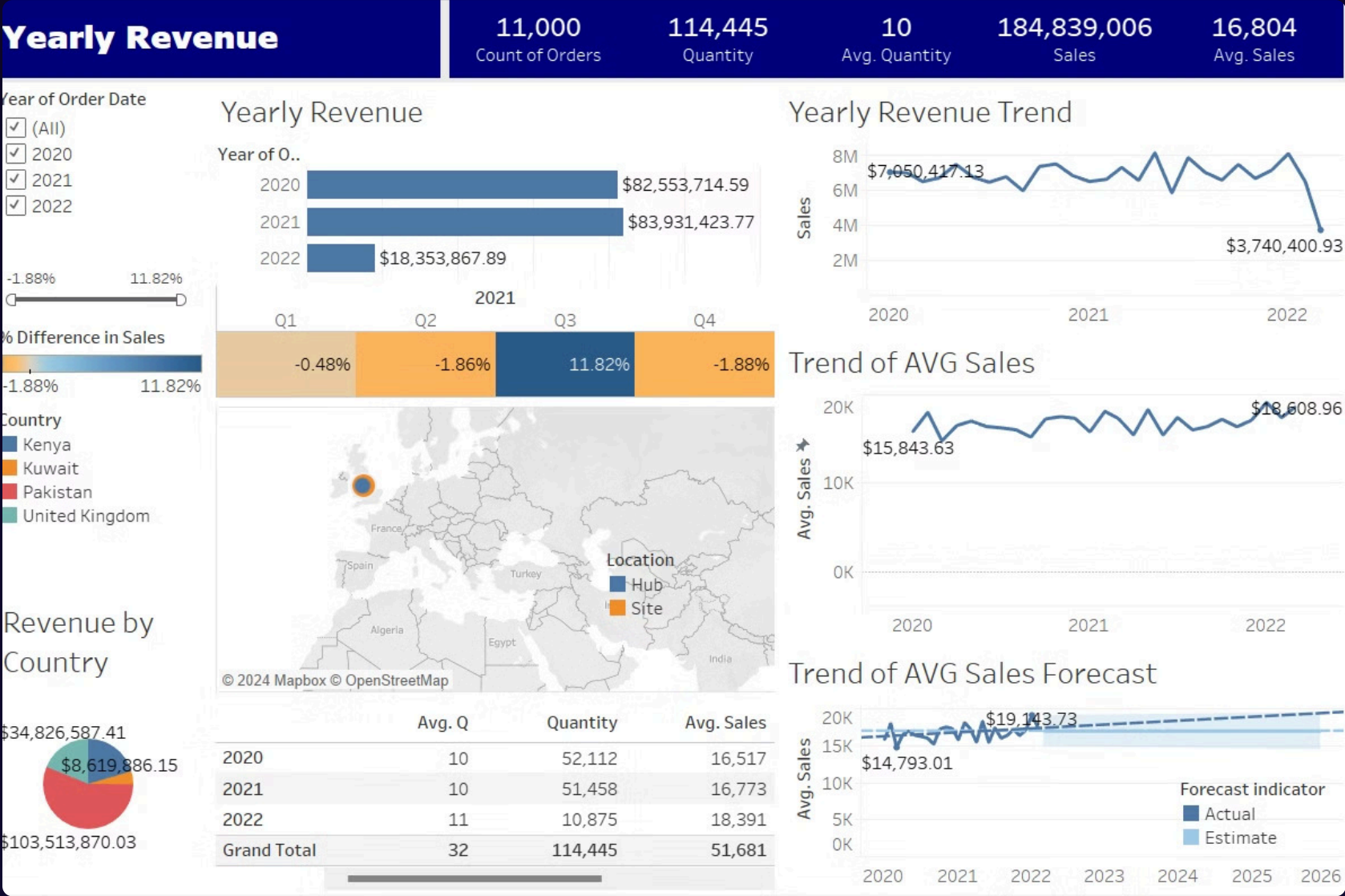
Visualisation

I created various types of charts, such as bar charts, line graphs, and pie charts, to represent data trends and comparisons clearly, as well as I designed interactive dashboards using Power BI and Tableau, enabling dynamic data exploration and real-time updates for comprehensive reporting.

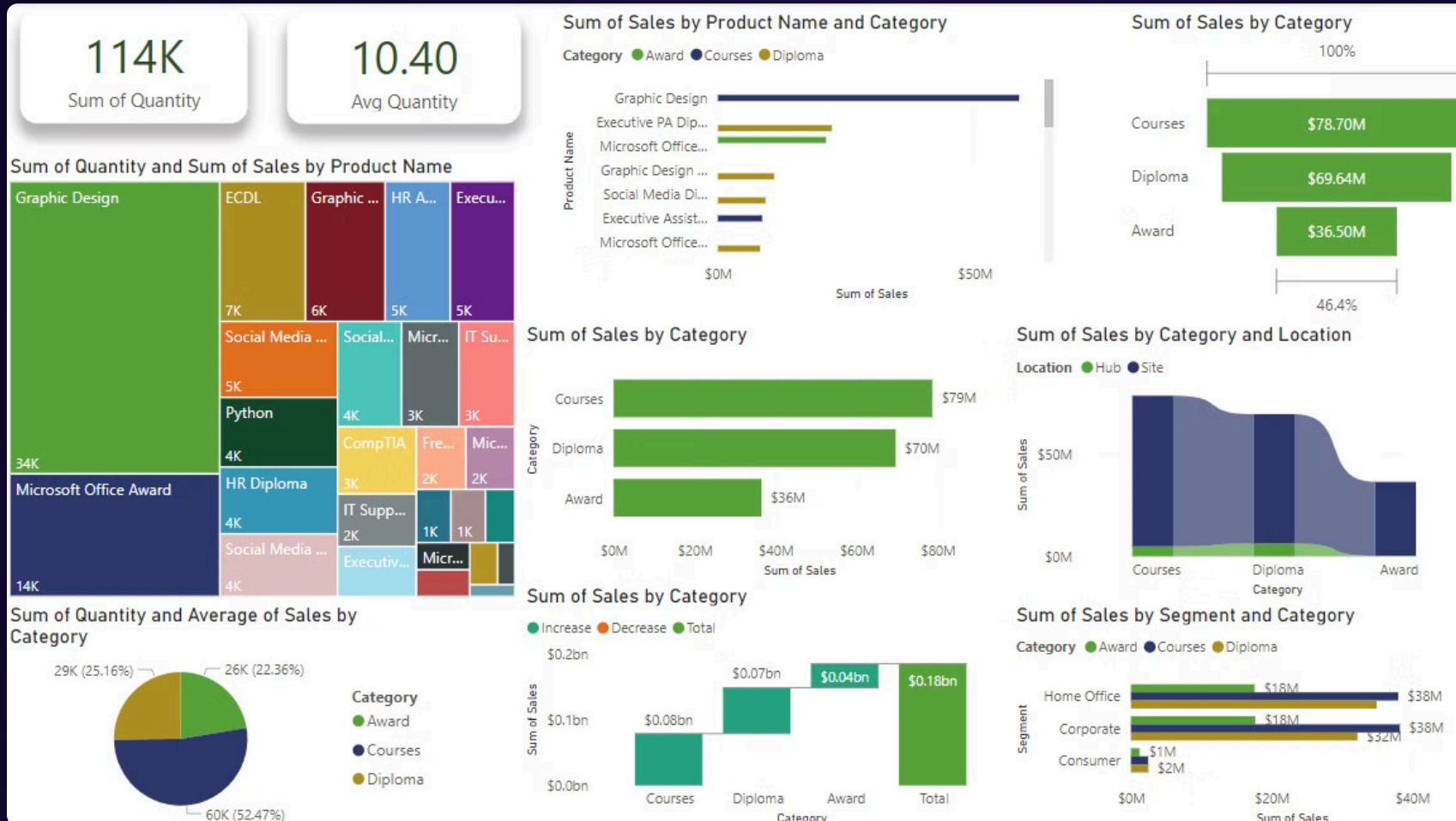
Tools

- SQL
- Tableau
- Power BI
- Excel

Example of Tableau BI Visual



Example of Power BI Visual



Data Interpretation and Reporting

1 Pattern Analysis

I examined data patterns and correlations to understand the underlying trends and behaviors

2 Detailed Reporting

I prepared detailed reports and presentations, using clear visualizations to convey complex information. I also provided executive summaries to highlight key insights and recommendations

3 Stakeholder Communication

I tailored my communication to different stakeholders, including senior managers and department heads, ensuring that the findings were relevant and actionable for their specific needs.



THANK YOU!

Questions?