Power-Bi

── MASTERY WITH THESE ──

12 Projects

Disclaimer

Everyone learns uniquely.

What matters is developing the problem solving ability to solve new problems.

This Doc will help you with the same.

BASIC LEVEL PROJECTS

1. Product Sales Data Analysis

Sales data analysis is crucial for monitoring performance and addressing key business queries.

In this project, you will analyze a company's sales data, highlighting profits per product, overall sales, and other vital factors impacting business outcomes.

⚙️ Skills Practised

Data importing, use of basic visualizations (bar charts, pie charts), and creating calculated columns.

🔗 Source code

https://github.com/topics/sales-analysis

2. Customer Churn Analysis

Modern enterprises face the issue of customer migration, and to address this, it's crucial to understand the underlying reasons and contributing factors.

In this project, you'll aim to shed light on customer behavior, demographic trends, and patterns of churn.
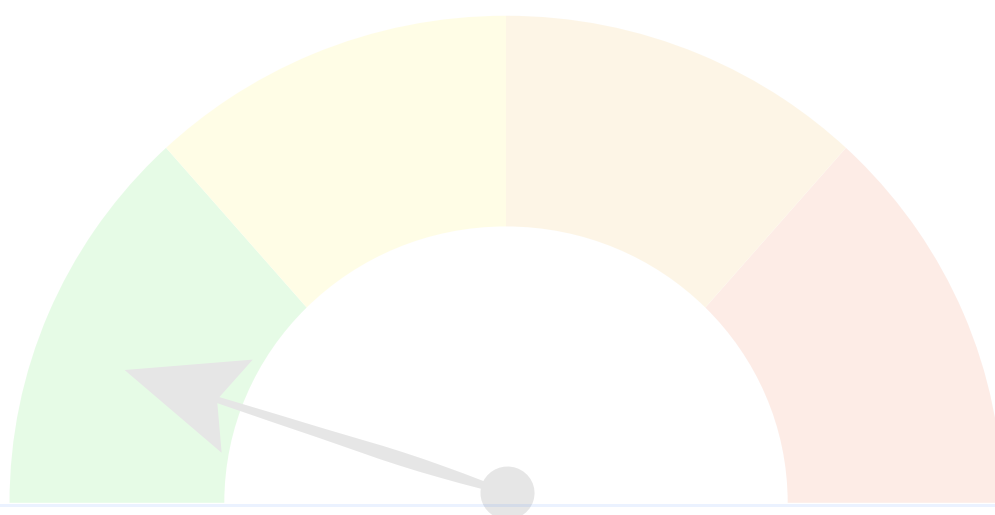
⚙️ Skills Practised

Combo Charts, Bar Charts, Line Chart, Cards, Tables, etc., for overview page.

Column Charts, Bubble Charts, Point Maps, Tables, etc., for the customer segmentation page.

🔗 Source code

https://github.com/topics/customer-churn-analysis

3. Marketing Campaign Insights Analysis

Maximize your marketing impact with this project. Analyze campaign data to understand your audience, channels, and budget efficiency.

⚙️ Skills Practised

Bar Charts for category-wise expenditures, Smart Narratives for highlighting key aspects of the campaign, Column Charts for campaign success rates, etc.

🔗 Source code

https://github.com/vikrantarora25/Marketing-Campaign-Analysis

INTERMEDIATE LEVEL PROJECTS

4. Financial Performance Analysis

Compile financial information from various channels to generate comprehensive income statements, balance sheets, and cash flow statements for a detailed analysis of financial performance in this project.

⚙ Skills Practised

Data consolidation from diverse sources, designing interactive dashboards with dynamic visualizations such as income statements, balance sheets, and cash flow charts, proficiency in DAX (Data Analysis Expressions) for measures for financial metrics.

🔗 Source code

https://github.com/aj112358/Finance_Analysis_PowerBI

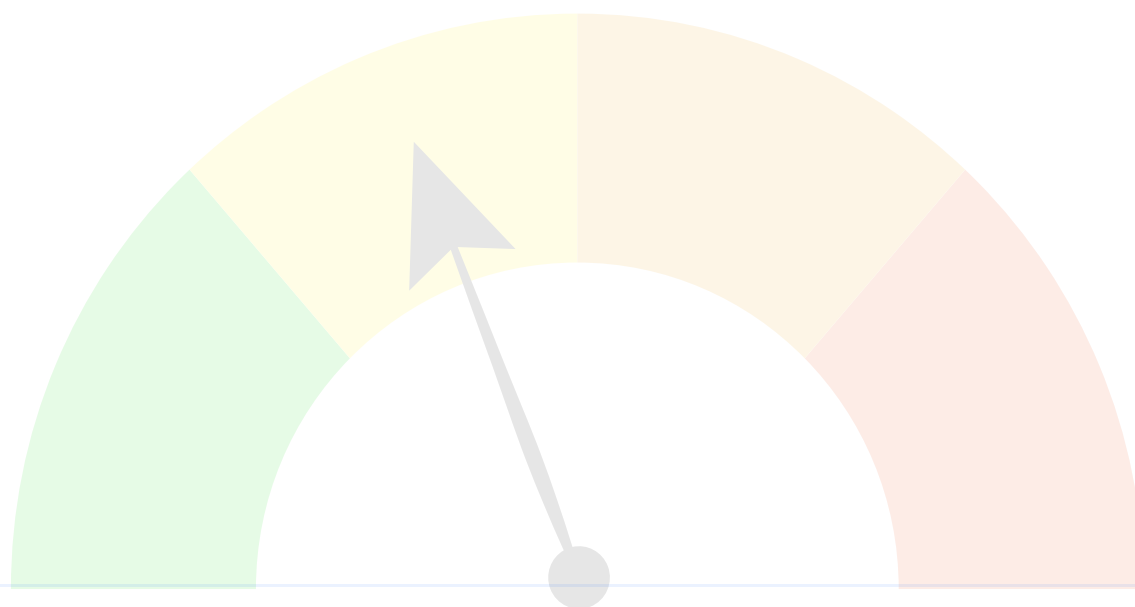## 5. Marketing Campaign Analyzer

In this project, evaluate marketing campaign effectiveness, calculate return on investment (ROI), and create dynamic dashboards to visualize customer engagement metrics.

⚙ Skills Practised

Data integration and manipulation from diverse marketing platforms, Design and development of interactive dashboards, Calculation and analysis of marketing campaign KPIs,Data visualization using charts, graphs, and maps, A/B testing and data-driven optimization of marketing campaigns.

🔗 Source code

https://learn.microsoft.com/en-us/power-bi/create-reports/sample-competitive-marketing-analysis

6. HR Employee Performance Tracker

Create an HR Employee Performance Tracker that monitors key performance metrics, analyzes turnover rates, and visually presents workforce demographics. This project aims to provide comprehensive insights into employee performance and demographic trends.

⚙️ Skills Practised

Data integration and analysis from HR systems, Development of interactive dashboards with Power BI, Analysis of employee performance metrics, charts, graphs, and maps data visualization, statistical analysis and predictive modeling for turnover rates.

🔗 Source code

https://github.com/Pandey-Adarsh/HR-Analytics-PowerBI

ADVANCED LEVEL PROJECTS

7. Retail Analytics Dashboard

Develop a Retail Analytics Dashboard that seamlessly integrates sales, customer, and inventory data, offering a holistic view of retail operations.

⚙️ Skills Practised

Data integration, data modeling, and visualization, Proficiency in DAX for custom metrics, Power Query for data transformation, dashboard design, report interactivity.

🔗 Source code

https://github.com/ShrishtiHore/
Retail_Global_Customer_Analysis

8. Supply Chain Optimization Report

Develop a comprehensive Supply Chain Optimization Report focusing on analyzing logistics, identifying bottlenecks, and proposing effective optimization strategies.
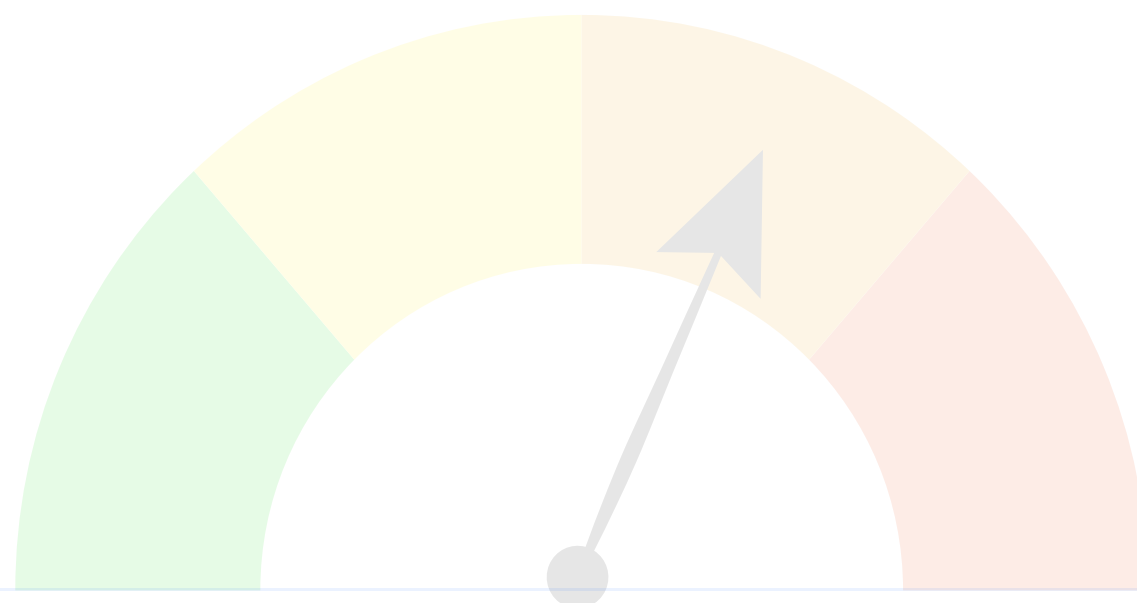
⚙️ Skills Practised

Data analysis and interpretation from diverse supply chain sources, visualize key supply chain metrics, performance trends, and bottlenecks, Power BI's what-if analysis capabilities to test different optimization strategies, live data sources monitoring.

🔗 Source code

https://github.com/arghanath007/Atliq-Mart-FMCG-Supply-Chain-Dashboard

9. **Healthcare Patient Data Analysis**

Create a Healthcare Analytics Dashboard that visually represents patient demographics, treatment outcomes, and resource utilization in healthcare settings.

⚙️ Skills Practised

Data wrangling and secure handling of sensitive healthcare data, Design secure and interactive dashboards with visualizations,Real-time monitoring, filtering and drilling down reports, machine learning for future resource utiliazation prediction.

🔗 Source code

https://github.com/Rupasree02/Predictive-Analysis-on-Healthcare-Products

10. Real Estate Market Trends Predictor

Develop a Real Estate Market Trends Predictor that goes beyond traditional analysis by leveraging advanced techniques to forecast property values and identify lucrative investment opportunities.

⚙️ Skills Practised

Dynamic dashboard building with charts, graphs, maps, Scenario Modeling of impact of different investment scenarios by adjusting variables like interest rates, economic factors, and property characteristics, Real-time Market Monitoring, Power BI's AI capabilities to gain automated insights.

🔗 Source code

https://github.com/Jakel158/Denver_RealEstate_Analysis
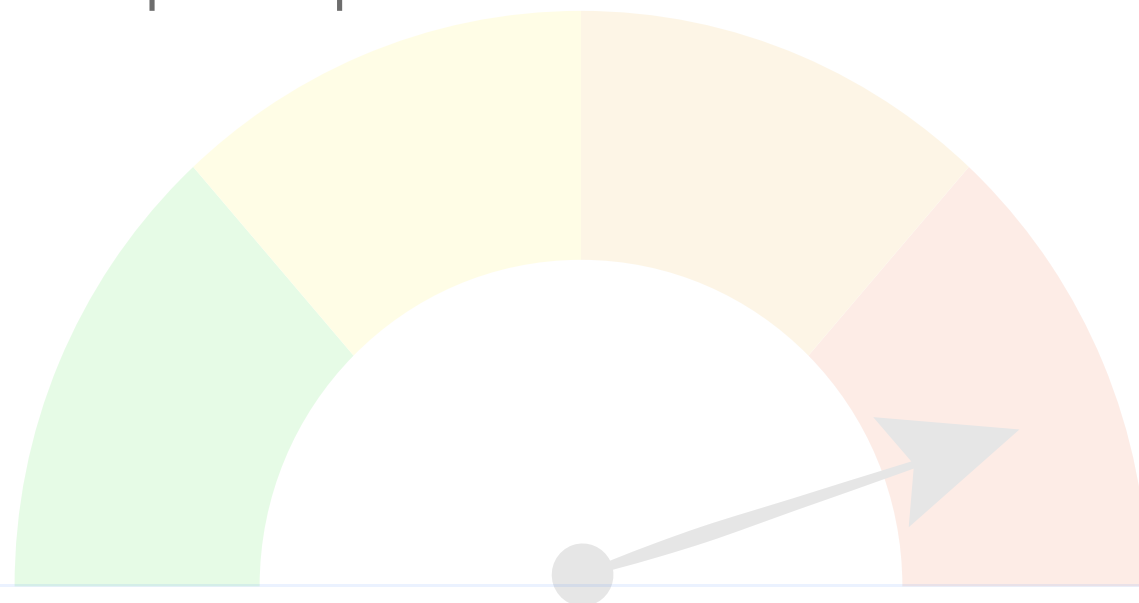
11. Manufacturing Process Efficiency Analyzer

Create a Manufacturing Process Efficiency Analyzer with the capability to monitor manufacturing processes, track efficiency metrics, and predict maintenance needs.

⚙ Skills Practised

Data acquisition and integration from various manufacturing sources, Design interactive dashboards tailored enabling real-time monitoring, drill-down analysis, Power BI's extensive library of industry-specific visuals, like Gantt charts and Overall Equipment Effectiveness (OEE) dashboards, automated alerts, secure data sharing and collaboration among stakeholders.

🔗 Source code

https://github.com/pvn-ptl/AdventureWorks-Analytics

12. Telecommunications Customer Churn Predictor

Create a Telecommunications Customer Churn Predictor designed to analyze customer data, predict churn rates, and identify key factors influencing customer retention.

⚙️ Skills Practised

Data analysis and cleansing from diverse telecommunications sources, Machine learning modeling for churn prediction and customer segmentation, Utilize Power BI's geographical maps to visualize targeted outreach efforts, Power BI's what-if analysis features to analyze the impact of different retention strategies on predicted churn rates.

🔗 Source code

https://github.com/usmanbvp/Telecom-Customer-Churn-Prediction

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>
> Lavanya
> ∞ Meta

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> Rahul .
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