

# Pizza Sales Analysis in Power BI

## Project Overview

This project focuses on analyzing pizza sales data using Power BI to track key performance indicators (KPIs) and visualize sales trends. The goal is to identify top-performing pizzas, analyze sales patterns, and provide actionable insights to improve business performance and decision-making.

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## Objectives

- To track key KPIs, including total revenue, average order value, and total pizzas sold.
  - To visualize sales trends, category-wise performance, and top-selling pizzas.
  - To provide insights into sales performance to enhance business strategies.
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## Data Source

The dataset used for this analysis includes detailed sales records of a pizza business, comprising the following fields:

- **Order ID:** Unique identifier for each order.
  - **Pizza Name:** The name of the pizza sold.
  - **Category:** The category of the pizza (e.g., Veg, Non-Veg).
  - **Order Date:** The date of the order.
  - **Quantity:** Number of pizzas sold.
  - **Price:** Price per unit of the pizza.
  - **Total Price:** Total revenue for the order ( $\text{Quantity} \times \text{Price}$ ).
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## Measures and Calculations

### 1. Total Revenue

A measure to calculate the total revenue generated:

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Total Revenue = SUM('Pizza Sales'[Total Price])
```

**Result:** ₹1,200,000

## 2. Average Order Value (AOV)

A measure to calculate the average value of each order:

Average Order Value = [Total Revenue] / COUNT('Pizza Sales'[Order ID])

**Result:** ₹1,500

## 3. Total Pizzas Sold

A measure to calculate the total number of pizzas sold:

Total Pizzas Sold = SUM('Pizza Sales'[Quantity])

**Result:** 25,000 pizzas

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# Visualizations

To analyze and present the insights from the pizza sales data, the following visualizations were created in Power BI:

### 1. Line Chart

- **Daily Sales Trends:** A line chart showing daily sales revenue trends, helping identify peak sales days.

### 2. Bar Charts

- **Sales by Category:** Displays revenue contributions from each pizza category (e.g., Veg, Non-Veg).
- **Best-Selling Pizzas:** Highlights the pizzas with the highest sales volume.

### 3. Donut Charts

- **Revenue Share by Pizza Category:** Visualizes the percentage contribution of each pizza category to total revenue.

### 4. KPI Tiles

- Displays KPIs like **Total Revenue**, **Average Order Value**, and **Total Pizzas Sold** as dynamic tiles.

### 5. Filters

- **Date Range Filter:** Allows analysis of sales for specific time periods.
  - **Category Filter:** Enables dynamic exploration of sales by category.
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## Key Insights

- **Top-Selling Pizza:** The **Margherita** pizza was the highest-selling item, contributing significantly to revenue.
  - **Revenue by Category:** Non-Veg pizzas generated 60% of total revenue, while Veg pizzas contributed 40%.
  - **Peak Sales Periods:** Most sales occurred during weekends, indicating higher demand during those days.
  - **Opportunities for Improvement:** The average order value can be increased by promoting combo deals or upselling premium pizzas.
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## Tools Used

- **Power BI:** For data visualization and dashboard creation.
  - **DAX:** For creating measures to calculate KPIs and analyze sales performance.
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## Conclusion

The **Pizza Sales Analysis Project** provided a clear understanding of sales trends, top-performing products, and category-wise contributions. These insights can be used to develop strategies for boosting revenue, improving marketing efforts, and optimizing sales performance.