Zomato Power BI Analysis Project

Introduction

This project analyzes the Zomato restaurant dataset using Power BI to identify key insights such as average dining cost, popular cuisines, restaurant distribution, and customer ratings.

Objectives

- Understand restaurant cost patterns across cities
- Identify top cuisines and restaurants
- Compare average ratings and customer preferences
- Build a professional dashboard for business insights

Dataset Description

- Source: Kaggle (Zomato Dataset)
- Size: Example ~9,544 rows × 21 columns
- Key Columns: Restaurant Name, Location, Cuisines, CostForTwo, Currency, Rating, Votes

Data Cleaning Process

- Removed duplicate records
- Handled missing values in Rating and Cost
- Converted currencies into INR
- Standardized column names (e.g., 'Average Cost for two' → 'CostForTwoINR')
- Created cleaned dataset

Dashboard Design

- Tools Used: Microsoft Power BI
- KPI Cards: Average Dining Cost for Two (INR), Average Rating, Total Restaurants
- Visualizations:
* Bar chart: Top cuisines
* Pie chart: Ratings distribution
* Scatter plot: Cost vs Rating
* Map: Restaurants by location
- Filters: City, Cuisine Type

Insights & Findings

- Delhi NCR has the highest number of restaurants
- Italian and Chinese cuisines are among the most popular
- Higher dining costs often correlate with better ratings
- Fast food is popular despite lower average ratings

Conclusion

The Power BI dashboard provides actionable insights for restaurant industry decision-making. The project demonstrates data cleaning, transformation, and visualization skills.

Future Scope

- Automating dashboard with real-time Zomato API
- Adding customer review sentiment analysis
- Predicting restaurant success using machine learning models

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