# 📌 Task 4: Location-Based Analysis – Cognifyz Internship

## 🎯 Objective

Analyze and visualize restaurant distribution, ratings, and costs based on location (city/locality) using the Zomato dataset.

## 🔍 Steps & Insights

### 1️⃣ Latitude vs Longitude Map

• Shows overall restaurant spread across the globe.  
• Clusters observed around India, USA, Philippines, and UAE.

### 2️⃣ Interactive Geo Map by City

• Built using Plotly – Color-coded cities.  
• Hover feature reveals city, latitude, longitude.

### 3️⃣ 📊 Top 10 Cities with Most Restaurants

• New Delhi, Gurgaon, and Noida are top contributors.

### 4️⃣ ⭐ Top 10 Cities by Average Rating

• Tagaytay, Lincoln, and Makati City lead in customer ratings.

### 5️⃣ 💸 Top 10 Cities by Average Cost for Two

• Jakarta and Tangerang have the highest average costs.

## 🛠️ Tools & Libraries Used

• Pandas  
• Matplotlib  
• Plotly  
• Jupyter Notebook  
• Groupby & Aggregation

## 📈 Outcome

• Built data visualizations based on location.  
• Learned geospatial EDA and city-level insights.  
• Task ready for LinkedIn demo/video post.