**📊 Level 1 – Task 3: Geospatial Analysis**

**📌 Objective**

* **Visualize restaurant locations using latitude and longitude.**
* **Analyze restaurant distribution across different cities or countries.**
* **Determine if there is a correlation between restaurant location and ratings.**

**1️⃣ Visualizing Restaurant Locations on a Map 🗺️**

**Key Insights:  
✔ Used latitude and longitude to map restaurant locations.  
✔ Created an interactive map using Folium, allowing us to explore restaurant distribution.  
✔ Observed restaurant clusters in high-density areas.**

**2️⃣ Analyzing Restaurant Distribution 🌍**

**Key Insights:  
✔ Found that certain cities, like New Delhi, Gurgaon, and Noida, have the highest number of restaurants.  
✔ Identified regions with lower restaurant density, which may indicate business opportunities.  
✔ Noticed that some countries had more diverse cuisine availability.**

**3️⃣ Correlation Between Location and Ratings 📊**

**Key Insights:  
✔ Checked if restaurant ratings vary by location.  
✔ Observed that city-center restaurants tend to have higher ratings due to better accessibility and higher competition.  
✔ Some high-end restaurants in premium locations received better reviews, confirming the importance of location in restaurant success.**

**🎯 Final Summary**

**✔ Mapped restaurant locations using latitude & longitude.  
✔ Analyzed restaurant distribution across cities & countries.  
✔ Checked if location affects restaurant ratings.  
✔ Confirmed that high-end restaurants in premium areas tend to have better ratings.**