# 📊 Cognifyz Internship Data Analysis Report

**Intern Name:** Farhan Khan  
**Internship Level:** Level 1 and Level 2 (All Tasks)  
**Company:** Cognifyz Technologies**.**

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**🔹 Internship Introduction**

* I completed a Data Analysis Internship at **Cognifyz Technologies**, where I analyzed restaurant data using Python(Pandas, numpy, Matplotlib, seaborn)
* I successfully completed **Level 1** and **Level 2** tasks, focusing on cuisines, ratings, city trends, price range, online delivery, and restaurant chains.

# Level 1 Tasks

**🔹 Task 1: Top Cuisines**  
The top 3 most common cuisines in the dataset are:

* North Indian (3960 restaurants, 41.46%)
* Chinese (2735 restaurants, 28.64%)
* Fast Food (1986 restaurants, 20.79%)

**: North Indian cuisine is the most widely served across restaurants.**

**🔹 Task 2: City Analysis**

* City with the most restaurants: **New Delhi** (5473 restaurants)
* City with the highest average rating: **Inner City** (Avg rating: 4.9)  
  : **New Delhi is a hub of restaurants, while Inner City offers the best-rated experiences.**

**🔹 Task 3: Price Range Distribution**

* Most restaurants fall into **Price Range 1** (affordable).
* Distribution: 46.53% in range 1, 32.59% in range 2, 14.74% in range 3, and 6.14% in range 4.  
  : **Majority of restaurants are budget friendly.**

**🔹 Task 4: Online Delivery**

* Restaurants offering online delivery: **25.66%**
* Average Rating: Delivery – 3.67, No Delivery – 3.25  
  **: Online delivery restaurants have slightly better ratings.**

# Level 2 Tasks

**🔹 Task 1: Restaurant Ratings**

* Most ratings fall in the **3.0 to 4.0** range
* Average number of votes per restaurant: **156.91**  
  **: Ratings are generally moderate, with a decent amount of customer feedback.**

**🔹 Task 2: Cuisine Combinations**

* Common combos: North Indian ,North Indian+ Chinese, Fast Food
* Best-rated combo: **Italian + Deli, American + Coffee and Tea, American + BBQ + Sandwich (4.9 Avg\_rating)**

**:Some combinations attract better customer satisfaction.**

**🔹 Task 3: Geographic Analysis**

* Dense clusters of restaurants found in **New Delhi**, **Bangalore** and **Hyderabad**  
  **: These cities are top hotspots for food businesses.**

**🔹 Task 4: Restaurant Chains**

* 734 restaurants were found with more than one outlet (chains)
* Top chains include Cafe Coffee Day (83), Domino’s Pizza (79), Subway (63), Green Chick Chop (51), and McDonald's (48)
* Highest-rated chain: 10 Downing Street (4.00 Avg Rating, 670 Votes)

**: These brands maintain consistent presence and popularity.**