**A close up of a logo

Description automatically generated**

**Analytics & Performance Internship Case Study - 2024**

# Task 1 **(16 Points)**

Scrape all the restaurants and cafés in **New Cairo** from Google maps. Feel free to use any API or online tool, or even write your own scraper using python. The most important thing is to scrape as many restaurants as possible. **The more non-duplicate restaurants and cafés, the higher your score in this task.**

No manual data entry allowed here, of course 😊 And in general, you need to provide a scalable solution. A solution is scalable if the answer is **yes** to the following questions: “If we want to replicate this for 30 other districts beside New Cairo, can we do it in adequate time and with minimal manual effort? If we want to rerun the whole process in 6 months to update the list of restaurants, will it be as easy as a few button clicks?”

Each restaurant should have the following information:

* Restaurant Name.
* Star Rating.
* Reviews Count.
* Location (Latitude and Longitude)
* URL to open this restaurant on Google Maps

For this task, submit an excel sheet named *New\_Cairo\_Restaurants.xlsx* with the final list of restaurants that you scraped.

Feel free to further manipulate the data to clean it and/or remove duplicates using python. If you did, then please submit your Python efforts in a python notebook *New\_Cairo\_Restaurants.ipynb*

Finally, please submit a simple doc (.doc or .txt) explaining which tool you used and how you used it, in one short paragraph.

# Task 2 **(9 Points)**

In the attached excel sheet you will find data for some restaurants in Nasr City, please do all the following tasks using python:

* Read the sheet in a Pandas dataframe.
* Remove duplicate titles in the same location and keep only the one with the highest reviews count.
* Flag all Koshary restaurants still using python (the more inclusive the logic you use the higher the score).
* Specify the two Koshary restaurants that are closest to each other, distance-wise.

For this task, submit your code in a single python notebook *Nasr\_City\_Restaurants.ipynb*

**Finally, please make sure to zip all Task 1 & 2 deliverables into one .zip file named with your first and last name all in small and separated by an underscore.**

*Thank you for putting in the time and effort to do this exercise. Much appreciated, regardless of the outcome.*