# Restaurant financial crisis in Pittsburgh due to coronavirus quarantine. Which neighborhood win or lose?

**The proposal states the problem or issue,**

This project is aimed to answers the following questions

1. How many restaurants went out of business due to COVID-19 lockdown?
2. Which neighborhoods faced the most impacted by this pandemic?
3. Is there a correlation between the walkability and the rate of closure of restaurant/cafe?

**limits the scope of the project to a geographic area and specific purposes.**

This project will primarily focus only Pittsburgh. The duration of statistic is ranging from 2019 – 2021 for the purpose of analyzing impact from COVID-19.

**State the intended advanced analysis technique.**

* Python: Due to fact that the dataset is an aggregation of 2019,2020,2021, sorting by name of business (ascending) and separated into 40 CSV files, the dataset must be rearranged and regroup into 3 files (3 years). The plan is to accomplish that by using PANDAS library in Python code.
* Geocoding: This is because there is no latitude/longitude attribute in the data. It still does contain street address of business.
* Network Analysis & Proximity: The hypothesis is that restaurant within good walkability area will be unlikely to close. This tool is good for proving/disproving the hypothesis.

**List data sources and confirmation that you have obtained the data. Points will be deducted if a data list is not included.**

1. Historical Business Data from [ReferenceUSA (now Data Axle) - Carnegie Mellon University (exlibrisgroup.com)](https://cmu.primo.exlibrisgroup.com/discovery/fulldisplay?docid=alma991019889173004436&context=L&vid=01CMU_INST:01CMU&lang=en&search_scope=MyInst_and_CI&adaptor=Local%20Search%20Engine&tab=Everything&query=any,contains,data%20axle&mode=Basic)
   1. US Historical Business” 2019-2021, Major Industry Group = 58-EATING & DRINKING PLACES, Pittsburgh PA. 🡪 6423 results
   2. Graphical user interface

      Description automatically generated with medium confidence
   3. There are 40 files. 75 columns.