**Executive Summary**

A year over year analysis of bike share data in Chicago from March 2019 to April 2021 to study the impact of COVID on riders. This analysis will also consider changes in weather during this period of time.

**Motivation**

My main form of transportation during my 11 years spent in Chicago from 2004 to 2015 was a bicycle. Having read articles on how DIVVY ridership was up due to COVID, I was curious to look into the data to see just how much ridership was up.

**Data Question**

How has COVID impacted DIVVY ridership overall

Do these

**Minimum Viable Product (MVP)**

The final capstone should include:

* A bar chart showing cycling fatalities throughout the US
* A graph showing budgeting and expenditure on transportation infrastructure between cities.
* A breakdown of the factors that makes a city safe
* Showing how higher transit use makes for a safer city for cyclists overall
* A suggestion of how Nashville could improve bicycle infrastructure in order to become a safer city

The intended audience is not only those who are currently cyclists, but those looking for a safer, more affordable and greener way to commute throughout the city.

**Schedule (through June 29th)**

1. Get the Data (May 14th)
2. Clean & Explore the Data (May 26th)
3. Create Presentation of your Analysis (June 28th)

* Should be a presentation, but could include a Jupyter Notebook or dashboard in Excel, Tableau, or PowerBI

1. Internal demos (June 26th)
2. Demo Day!! (June 29th)

**Data Sources**

[Nashville Budget](https://data.nashville.gov/Budget-Finance/Metro-Budget-to-Actual-Expenses-FY2010-Present-/s2um-p6bp/data)

[National Highway Traffic Safety Admin](https://www-fars.nhtsa.dot.gov/Main/index.aspx)

[People For Bikes](https://www.peopleforbikes.org/news/building-for-tomorrow?utm_content=Bike%20Studies&gclid=Cj0KCQjwp86EBhD7ARIsAFkgakjKeyruAswN6I80AHoEMXdDvXA_phdqdkquo14QxBQjzM8JohtigDEaAtDyEALw_wcB&utm_source=Google&utm_medium=CPC):

[Outdoor Industry and Revenue](https://www.bicycling.com/culture/a23676188/best-bike-cities-2018/)

**Known Issues and Challenges**

Similar studies have been done in the past, and I worry that my study will end up not being unique, even though I haven’t found a similar analysis relating to Nashville.

It might be difficult for me to determine the factors that make up a “safe biking city.”