**A bicycle with a red handlebar

Description automatically generated with medium confidence**

**Cycling: How to Beat Collision Statistics**

Prepared for

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# **Project Summary**

The importance of maintaining a healthy lifestyle, both physically and mentally, has been at the forefront for many people. In turn, people have been using cycling as a method of transportation, to not only maintain a healthy lifestyle, but from an economical and environmental perspective as well. There are inherent risks involved with cycling and safety is of utmost concern for cyclists. Our aim of this project was to ascertain the following questions:

“What are the most common characteristics of cyclists involved in collisions?”

“What are the characteristics of other parties involved in cycling collisions?”

“What are external characteristics that influence cycling collisions?”

# **About Us and Our Project**

Our team is comprised of three upcoming data analysts who have worked in unification to identify characteristics and conditions that may impact cycling safety, analyze potential conditions and find any relationship within the data. Lastly, we have applied this by using findings to promote safer cycling conditions for all cyclists, both current and upcoming.

# **Scope of Work Tasks**

### Breakdown of Tasks

As the data analysts, we will complete the following tasks:

* Project ideation
* Data fetching and API integration
* Data Analysis
* Testing
* Formulating conclusions and determine potential correlational relationships

### Correlational Points of Consideration

* Casualty characteristics (i.e., age and sex of casualty)
* Other party characteristics (i.e., age and sex of driver, vehicle type)
* Collision characteristics (i.e., severity, datetime properties, junction, light and weather conditions)

# **References**

### Upon approval, data was able to be obtained by a valid API key from CycleStreets API (v2), which is a modern JSON interface to the routing engine and other CycleStreets Components. This could be found at <https://www.cyclestreets.net/api/>.

### The Collision data API provides information on collisions based on STATS19 data, which is between the years 1999 and 2021 inclusive.

### The Collision report API provides the data for a single collision location in the STATS19 data.

* + Both of the above APIs could be found at <https://www.cyclestreets.net/api/v2/collisions.location/>.