# Infrastructure Planning under a Analysis of Crime Data in Los Angeles

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Abstract—This is my first report using Git Version Control Index Terms—Optional, Keywords, Here

#### I. First Section

To add citations to the report, go to https://scholar.google.com, search for a paper, click on the quotation mark icon below the search result, and copy the BibTeX entry. Then paste it into the refs.bib file. You can cite papers using the @ symbol followed by the citation key, e.g., [1].

Other options to get BibTeX entries for your references include https://www.bibtex.com/converters/ and asking ChatGPT to generate the a BibTeX entry for you. (If you use ChatGPT, make sure to verify the generated BibTeX entry for correctness.)

More information about citations can be found in the Typst documentation: https://typst.app/docs/reference/model/cite.

#### A. First Subsection

Dataset description: The dataset we will be analyzing is the "Crime Data from 2020 to Present" dataset in Los Angeles city, which is publicly available on DATA.GOV (link: https://catalog.data.gov/dataset/crime-data-from-2020-to-present). The dataset in a CSV file contains more than 1 million rows. For our project, we will reduce it to 100,000 rows due to laptop memory limitations. There are 28 columns in the dataset, and we will be using the following 12 columns for our analysis:

- DR\_NO: Division of Records Number: Official file number made up of a 2 digit year, area ID, and 5 digits. The data type is Text.
- Date Rptd: Date the incident was reported. The data type is Floating and Timestamp.
- DATE OCC: Date the incident occurred. The data type is Floating and Timestamp.
- TIME OCC: Time the incident occurred. The data type is Text.

- AREA: Area where the incident occurred. The data type is Text
- AREA NAME: ID of the area where the incident occurred. The data type is Text.
- Rpt Dist No: A four-digit code that represents a subarea within a Geographic Area. The data type is Text.
- Vict Age: Age of the victim. The data type is Text.
- Vict Sex: Sex of the victim. The data type is Text.
- Vict Descent: Descent of the victim. The data type is Text.
- LAT: Latitude coordinate of the incident. The data type is Number.
- LON: Longitude coordinate of the incident. The data type is Number.

To add figures to your report, save the image file in the figures folder and use the #figure command as shown below to include it in your document. You can specify the width of the image and add a caption. Then you can reference the figure like this: Fig. 1.



Fig. 1. A humble request. (Copyright: University of the Fraser Valley.)

#### a) First Subsubsection:

You can make sub, sub-sub, and sub-sub-sub sections by adding = signs in front of the section title. There needs to be a space between the last = sign and the title text.

## II. SECOND SECTION

You can add tables using the #table command. Here is an example table:

TABLE I Example Table

Column 1	Column 2	Column 3
Row 1	Data 1	Data 2
Before you submit  Do it one more time - PROOF READ	Data 3	Data 4

You can reference the table like this: Table I.

## A. Various Text Formatting Options

You can make text *italic* by surrounding it with \_ symbols, **bold** by surrounding it with \* symbols, and *bold italic* by combining both. You can also use #code to format inline code snippets.

You can create bullet point lists using - or \* symbols:

- Bullet point 1
- Bullet point 2
  - ▶ Sub bullet point 1
  - ▶ Sub bullet point 2

You can create numbered lists using numbers followed by a period:

- 1) First item
- 2) Second item

- a) Sub item 1
- b) Sub item 2

# B. Equations

You can create equations using \$ symbols. For example, you can make an inline equation like this  $E=mc^2$  or a displayed equation like this:

$$x < y \Rightarrow x \ngeq y \tag{1}$$

You can reference the equation like this: Eq. (1).

## REFERENCES

 O. H. Lowry, N. J. Rosebrough, A. L. Farr, R. J. Randall, and others, "Protein measurement with the Folin phenol reagent," *J biol Chem*, vol. 193, no. 1, pp. 265–275, 1951.