

**BDA 798 Bi-weekly Journal**

Please keep a bi-weekly written “**journal**” to report your research activities, including who you worked with, what you did, what you learned, and any feedback/reflection/reaction. Submit the bi-weekly Journal entries (**in PDF format**) to CANVAS every other week and include the number of hours worked each week.

**Student Name:** Swikriti Joshi

**Student ID:** 119312983

**Faculty Sponsor Name:** Dr. Ming-Hsiang Tsou

**Reporting Week Numbers or Dates (2/3, or 4/5, or 6/7, … etc.):** Week 9

**Total working hours (minimum 8.5 hours per week):** 18 hours

**Journal Description (at least 150 words):**

Over the past two weeks, I focused on expanding my data visualization work to better illustrate crime trends in the city. Specifically, I created visualizations that highlight the top five reported crime categories in 2024.

Top 5 Crime Categories and Average Daily Incidents, displays how often these crimes occur on average each day of the week. This helps reveal clear patterns in daily crime activity, supporting more informed decisions about public safety planning and resource allocation.

Top 5 Crime Categories: Day and Time Patterns, examines how these crimes fluctuate across both days of the week and times of day. By analyzing these temporal patterns, we can better understand when certain crimes are most likely to occur and identify potential high-risk periods. The insights gained from this analysis can help law enforcement and city officials develop more efficient patrol schedules and targeted prevention strategies.

In addition to the data analysis, I have also started developing a webpage to present my findings in a more interactive and accessible format. I am using HTML and CSS to design the layout and structure, with the goal of creating a user-friendly platform where viewers can explore the visualizations and insights more easily.

Next, I plan to continue refining the webpage design and incorporate more interactive elements, such as filters or hover effects, to enhance the presentation of data and improve the overall user experience.

A screenshot of a graph

AI-generated content may be incorrect.A screenshot of a graph

AI-generated content may be incorrect.

A screenshot of a graph

AI-generated content may be incorrect.

A screenshot of a graph

AI-generated content may be incorrect.

A screenshot of a graph

AI-generated content may be incorrect.

A screenshot of a graph

AI-generated content may be incorrect.

A screenshot of a graph

AI-generated content may be incorrect.









