DATS 6101 Project Proposal

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- **Research Topic**
  - Crime Pattern Analysis in Washington, DC, US

- **Why did we choose this topic?**
  - We chose this topic because the three of us recently moved to Washington, D.C., and are interested in understanding what influences crime rates in our new neighborhoods. The quality of life affects us daily, and we're curious about how factors like the local economy, education, and social services impact safety and community well-being. We believe this is important not only for us but for everyone living here, and we hope to uncover meaningful insights. Our research questions are shaped by the data available to us, and we plan to secure additional data to explore these topics further.

- **SMART Questions**
  1. How does the frequency of crime vary across different neighborhoods in DC during 2024?
  2. What time of year in 2024 saw the highest and lowest crime rates in DC?
  3. What are the most common types of crime reported in DC throughout 2024?
  4. Is there a significant correlation between the time of day and the type of crime reported?
  5. Which neighborhoods in DC have the highest rates of homicide?

- **Source of data**
  - **Source:** Open Data DC which is managed by the Enterprise Data team in the Office of the Chief Technology Officer (OCTO).
  - **Number of observations:** 29292
  - **Link:** Crime Incidents in 2024

- **Github Link:** DATS6101-G2