CS3 Hook Document: Investigating Crime Patterns in Los Angeles (2020-2024)
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Github Repository: https://github.com/a-chow3/Case-Study-3/tree/main

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Dear Future Analyst,

Imagine stepping into the second largest city in the US at over 3.8 million residents, not to mention the million more tourists on a daily basis. If you are not originally from the Hollywood life and the sunlit beaches, you may be a little blind to the fact that the city faces a persistent crime challenge like most other major cities in America. Your mission is urgent: identify trends, predict future crime spikes, and propose actionable insights to combat rising threats in LA using time series data.

In this situation, you are a data detective, relied on to utilize the tools to analyze and interpret information that others might overlook. With crime influencing multiple major facets of life from political policies to everyday routines, your analysis could provide real life insights into mitigating risks and protecting lives of the everyday American.

Why Does This Matter?

Crime affects more than just individuals. If unchecked, increasing crime trends can lead to:

- Economic losses as businesses close or relocate.
- Social unrest stemming from perceptions of injustice.
- Reduced quality of life for residents and visitors alike.

You will need to leverage time series data analysis to gain your own unique perspective on the underlying patterns and influences driving crime. This type of analysis should lead you to provide leaders with data-driven solutions to implement proactive solutions.

Your Mission:

You will be tasked with producing a report that has the following components:

1. **Identify Patterns:** Analyze the crime data to uncover seasonal and event-driven trends.
2. **Predict Future Crime Rates:** Build predictive models to anticipate spikes and lulls in criminal activity.
3. **Propose Solutions:** Recommend strategies for mitigating crime based on your findings.

The city of Los Angeles is counting on you. With the skills you have developed so far, you will create a deliverable that could be presented to city officials to shape their understanding and approach to urban safety. By the end of this case study, you'll not only have honed your ability to work with real-world data, but you'll also have contributed to one of the most meaningful and challenging topics in contemporary urban studies.