In class assignment 3 - Feedback Loop

**Question 1**

* **Draw it as a causal graph**
* **Variables in boxes, arrows showing that one variable causes a change in a second variable**

**Answer**

Predictive Policing Feedback Loop:

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**Proxy Variable:** Geographical location

**Other Variables:** Crime rates, historical arrest data, police resources.

Law enforcement agencies use geographical location as a proxy for crime prediction and resource allocation. However, if certain neighborhoods are over-policed due to historical bias or socioeconomic factors, more arrests may occur in those areas, leading to an overrepresentation of crime data from those neighborhoods. As a result, the algorithm may reinforce biased policing practices and target specific communities, creating a feedback loop that perpetuates unjust surveillance and arrests