1. A close up of a sign
   
   Description automatically generated
2. The PC Structure learning algorithm starts at all of the edges in a graph connected and looks for sets of three variables. For our example let’s use {A,B,C}. Once it finds these, it orients them in a way such that A – C and B – C are in the graph but not using A – B. In this case it creates a v-structure A -> C <- B and then orients the remaining edges in the graph while avoiding cycles and avoiding creating other v-structures.
3. It is able to orient some edges but not others because it attempts to prioritize the above principles over picking orientations that might be correct but violate these principles. It is ultimately guided by testing out the independent variables in the graph. It tries possible orientations of the graph’s undirected edges and then uses the data to then evaluate their viability.

Ethical Question:

I think the ethics of a decision network like this must be looked at by both parties. The balance that needs to be struck is between how data is collected by those using it as well as the type of data collected and the extent that people go to protect their information online. Currently, I believe that laws surrounding privacy are pretty good currently. I personally find it fine that ads are tailored to me. I think it is ethical that certain information is collected from social media if it is collected ethically. Anything that is made public can and should be used if it is to benefit businesses, but if private information is able to be accessed, then it encroaches the ethical grey area.