ANALYSIS PLAN

- > Uncertainity is one of the principal characteristics of data science work.
- Tf nothing were uncertain, a data scientist wouldn't have to explore, hypothesize, assen, discour or otherwise scientific methods to solve problems.
- -> If all of our Projects consisted only of absolute certainity,
 there would be no dopen of statistics in Data Science.
 - Every Data Science Project comprises of a series of open Juestions that are subsequently answered through the Scientific Process.
- For new Data Science Prostitioners, its quite a fun to load data, clean it, explore readon things I run woodels. But unfortunately when you an infinite number of ways to summarize would data, you can end up opending weeks working with data only to discover that nothing you've produced answers the lowerness question that was proposed.
 - Realization that you haven't done something relevant is worst feeling.

dolution Have a GruaRDRAIL - The Analysis Plan > 1. Spend time Understanding the data. 2. Write down evenithing you plan on doing with Date. -> Think of this as a tentative route through a city with streets that are Constantly under constantion You know where you'd like to go & few ways to get there but at every intersection, there might be road closed, there wight be bad traffic etc. Tou'll have to make decisions as you arrive at these obstacles. -> Have an OUTLINE of a few things you WANT TO DO. -> Keep TRACK of how ment you have COMPLETED. When you've done everything on the blan, you're done · You're not only have a way of knowing whether you're off the plan but you have a tool for tracking progress & kceping

yourself accountable.

Make a linear Regression on Sales By Region.

VS

Find out why sales are down.

You Can Write Code & Do Hat Not easy to

MAKE SURE ALL TASKS ARE ACTION ABLE

If the tasky you have laid out in your Action Plan are not Actionable than it is not going to be casy to tell if you are making propers.

- · Making your tasks actionable will make you tell easily whother you're making progress towards the end god.
- . It's also point to make doing analysis easier because you don't have to worry about what to do next.
- · Remember to lie flexible!

It would be a meistake not to consider new information as it arrives.

· It's a good idea to i-- Pouse Periodically throughout Project - Take Stock of Everything You've Reamed - Consider New information in context of LARGER GOALS. It's likely that as you do the analysis, you realize that you left something important out of the plan. Also per neary come up with new idea. Analysis plan is useful because it creates a conversation around what to remove instead of making you attempt to do an impossible amount of work. Once you have created the analysis plan, make sure that its included at the top level of a repository, By including an analysis plan as part of your portfolio project, you are gome jue grewelf a clear sewe of direction. It's also a HUGE signal for Hiring Managers as it shows that you are able to think though ambiguity.