WHAT KIND OF PROJECT?

Top 4 questions people ask :-

Q1 Which Dataset should I use?

A There is NO BEST dataset.

Q2 What Problems should I do?

A There is No BEST Problem.

Q3 What Algorithm should I use?

A There is No BEST Algorithm

Q4 What Programming Language should I use?

A Also there is No BEST Programming Language.

- When it comes to Dataset, stay away from dummy datasets like Titanic, Iris etc. They have been solved millions of times already.
- When it comes to solving Problems, what matters more is the Process you use to solve the Problem. In a company, any problem can come up & you need a methodology to solve that problem.
- When it comes to Algorithms, it totally depends on problem statement. When you follow a certain process, you automatically get to know a Algorithm that is Best fit for your ongoing problem.

Quality of Code — Data Analysis
Data Cleaning — Feature Engineering
Data Exploration — Pre processing

Steps that help you find
The Best Algorithm

- when it comes to Programming Language, it changes as per company's requirements. What's important is to understand the principles, than you can work on any language.

Coming to our core question → what type of Project you should do?

- It is equally important to reflect on a question :-
  - ↳ what a Project should do for you?
    - ↳ Any project you do should move you towards Developing MASTERY!

- Pick Projects which makes you curious, which leads you to practice for longer time which in turn increases your skill level & in turn makes practice even more interesting.

- Point here is to let your obsession & curiosity drive the type of projects you should do. This will reflect in your WORK QUALITY!

It's necessary to do some introspection & really think about :-

- What Data Scientist you want to become?
- What Industry do you want to work in?
- What Problems are there in this industry?
- What Problems can you find data for?
- What Problems can you go "ALL IN" on?

→ Use your Project to force yourself to learn something new.
↳ Doing these kinds of on demand projects will show you holes in your knowledge.

But... there will be an OVERSCOPING problem!
↳ Means you wanna add everything & doing more stuff as you go.

Another Problem you may face is NOT BEING ABLE TO PIVOT
↳ Sometimes you start a project but data isn't upto your expectation, so you might GIVE UP!
↳ In such situation, try harder to complete such project and tell your story to world because...

"Employers look for People who Learn from their mistakes."

- Do as many SMALL PROJECTS as possible. to develop your SKILL & INTUITION.

- Doing small small projects to hone & develop your skill & confidence.
  ↳ The knowledge you gain during this process will set you up for success later.
- We learn Best through Practice & Repetion.
- Efforts you put in small project will reward a new skill, deeper intuition & eventually MASTERY.
- Be sure your small projects focus on one particular skill. You don't have to keep adding more & more into a single project.
- The skill you Develop are going to be Demonstrated in the MASTER PROJECT.

Keep these small Projects for yourself.

- Your MASTER PROJECT will draw on everything you have learned. Use everything!
- Be sure NOT to make more than 3 Master Projects.
  ↳ Reason: You don't wanna overwhelm the hiring mgr. there are chances you couldn't do your best in some of those projects & hiring manager may pick the one of them. It will be a big turn off!
- Make sure that whatever project gets looked, by anyone in your repository, is a GOOD PROJECT!

- The point of doing Data Science Projects is to demonstrate your skill & ability to perform the work as a DATA SCIENTIST.

- You can create Projects of these 3 categories :-

  1. Projects that involve Data Engineering.
  2. Projects that involve Data Analysis.
  3. End - To - End Machine Learning Project.

Reason → You will be doing day-to-day work in these categories so its better to build expertise in them.