Module 6: Capstone Project

Mission 6.1 - Capstone Project

In this final module, you will be selecting a data set of your choice and applying all of the skills learned through the experience.

Begin by selecting a dataset of your choice. You will be defining a problem that you want to learn more about, so try to find a dataset interesting to you. Some resources include:

https://www.kaggle.com/datasets

https://data.worldbank.org/

https://www.google.com/publicdata/directory

Next, frame the problem. In Module 2, you were provided with the business problem. For this task, you will need to define a problem you want to shed some light on.

We can do this by asking **'What?'** This is where you frame the problem i.e. What is the problem?

Use these questions to guide your thinking

- What do you see happening?
- What is your hypothesis for the cause of the problem? (this will be broadly based on intuition initially)
- What is the impact of the problem on stakeholders?
- What is the impact of the problem not being solved?

Answering these questions will help you define a problem you are trying to solve, and will allow you to find the right data to solve it.

Once you have defined a problem, **clean the data** as necessary, and **use your Excel and Tableau skills to explore the data set and derive insights.**

Make sure to use **Root Cause Analysis** in your analysis, and use this to create a report which conveys a data story.

The minimum components for this report are:

▸ Project Description (the background of the project)

▸ Design (What steps have you taken to clean the data)

▸ Findings (include your tables from Excel and visuals from Tableau)

▸ Analysis (your findings from the root cause/5 Whys analysis)

▸ Conclusion

Submission

https://docs.google.com/forms/d/e/1FAIpQLSdnKOdAg-8BBM9mOihGrgLNMT-mXBtpX0WD7fGUgyroOVI8-g/viewform