Mentor Experience Sharing

Some Projects

Some Projects:

- Provide **recommendation** for the company to do in the early pandemic situation

Situation	: Early pandemic, business going down
Task	: Find actionables
Action	: - Analyze the data and current business process - Doing statistical analysis (correlation) - Communicate with the related team - Build machine learning model
Result	: Recommendation and prediction model
Metrics	: Mean Absolute Error (MAE)

Some Projects:

- **Classify** whether an account is being hijacked

Situation	: Fraud rates are high
Task	: Minimize fraud rates
Action	: - Gathering data from platform
	- Find patterns of fraud activities
	- Adding new variables for machine learning models
Result	: Analysis report and model update
Metrics	: Confusion Matrix, Accuracy, Precision, Recall

Some Projects:

- Using time series data to do price **forecasting**

Situation	: Want to know how much raw material to buy, depending on the price
Task	: Predict the raw material price in the next two months
Action	: - Gathering data - Gathering additional data from external sources - Build machine learning model
Result	: Prediction model and Dashboard
Metrics	: Mean Absolute Error (MAE)

Some Projects:

- Company **newspaper**

  Situation   : Want to boost employee morale in the company
  Task   : Give appreciation and good news across the company
  Action   : - Monitoring data
                         - Find interesting topics
  Result   : Weekly news in company scale

Some Projects:

- Machine Learning model supervision and Database creation

Situation : Building a new product/service

Task : Supervise the Machine Learning team and create database

Action : - communicate with the Machine Learning team about data and results
- create the database
- create automation for data input

Result : Workflow into Database

Some Projects:

- Dashboard creation

Situation : Each division has many different topics and metrics to monitor

Task : Create dashboard as per requested

Action : - Communicate with the user
- Act as a consultant in which metrics is relevant and what kind of chart is needed
- Build the dashboard

Result : Personalized Dashboard

As a Data Person

As a Data Person:

- Understand the **problem/goal** first, communicate with the stakeholder about the expected output

  ✓ Make sure the process and the expected output is align with problem/goal

  ✓ Asking the "why", why is this problem important, why is the goal like that, etc. to understand what is the stakeholder trying to achieve

  ✓ If possible, give recommendation about the better way to achieve the goal

As a Data Person:

- There is no need for perfection, finish the **MVP** (Minimum Viable Product) then gain feedback from the stakeholder

- ✓ Do not spend too much time on development part
- ✓ Finish MVP → Gain feedback → Revision/update

As a Data Person:

- Keep doing **communication with stakeholder** as much as possible to get familiar with their business process and pain point, this will help in making an **impact** or just to get comfortable with each other workflow

✓ Ask them about their day-to-day activities

✓ Be sensitive about their pain point

As a Data Person:

- Speak with **their language**, learn to share the finding in layman terms or **as simple as possible**

Actionables now :

- **Learn tools**
  Until the level where you understand what each tools do and what function is often being used

- **Try doing projects**
  From Kaggle or any other dataset source

- **Join community and/or find mentor**
  Sharing the learning enthusiasm and help each other
  Mentor helps in showing the path

Learn **tools** ✓

Try doing **projects** ✓

Find **community & mentor** ✓

Thank You