



# DATA RUSH

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ROUND 2-  
DATA VISUALIZATION

# PROBLEM STATEMENT

Factories can order supplies from multiple suppliers and products can be delivered to client companies from multiple factories. The goal is to develop a dashboard that helps to determine what raw material should be ordered from which supplier, where to manufacture the products, and how to deliver the manufactured products to the client companies so that the overall cost is minimized.

The factory has multiple warehouses that store products. A problem they face is that the demand of certain product from each warehouse is different. Some products go out of stock in one warehouse, and some have a surplus of the same product. The factory issues products based not on any scientific method but purely as the need of the clients. The factory needs to start the manufacturing process again or place an order to satisfy needs of a warehouse, even though a surplus maybe available in another warehouse. There is no overall system to monitor if they do not have the ability to increase efficiency of this method and since this has been a profitable practice for some over the years there is heavy resistance to change.

- Assume that you are the newly appointed Solution Architect and requested to come up with your approach to develop a predictive Model to predict the dispersion of products so that the over-stock, under-stock and out-of-stock warehouses can be identified.

This is a case study for a manufacturing company. Develop a dataset suitable to the mentioned scenario or use existing datasets and build an overall approach to this problem. Use the dataset to visualize the above scenario and prepare a Dashboard and Presentation on your solution.

## Presentation

- Problem Identification
- Audience
- How would you solve this issue?
  - \* Descriptive approach
  - \* Predictive approach
  - \* Prescriptive approach
- What are the suggestions you give
- What are the required data
- Important KPIs to address the Problem
- What are the limitations you will face when you address the problem

## Demo

- Dashboard (PowerBI or any other Visualization tool)
  - \* Suppliers, raw materials, inventory, clients
  - \* Managing the demand of products
  - \* Manage needs of the warehouses etc..

**DEADLINE: 4.00pm, 11th October 2021**

**PRESENTATION TO PANEL: 6.30pm onwards, 11th October 2021**

**Duration: 15 minutes -**

**8-10 minutes presentation and demonstration**

**5 minutes Q&A**

# JUDGING CRITERIA

- You will be judged on

## Creativity and Innovation

- New approach to Data Visualization
- Idea clearly conveyed by your Visualization
- Memorable content
- Represent data in a bold and original manner

## Design and Aesthetic

- Appropriate use of colour and design
- Choice of Visual: appropriate for the audience
- Clarity: Appropriate balance of function and design

## Effective Communication

- Message intended should be communicated clearly to the panel
- Fair representation: Data is accurately represented and message is consistent with the visualization
- Present your solution by explaining the story behind your solution.