## Idea on Phase Define the Problem Statements

| Date          | 30 June 2025   |
|---------------|--|
| Team ID       | LTVIP2025TMID35313   |
| Project Name  | Pattern Sense: Classifying Fabric Patterns using Deep Learning |
| Maximum Marks | 2 Marks  |

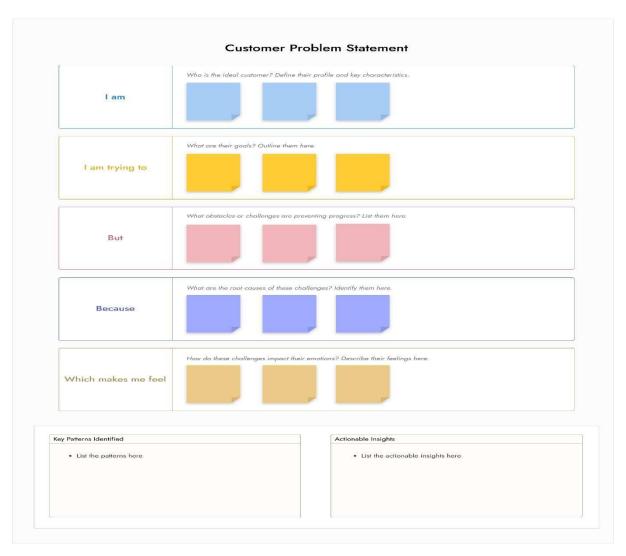
Customer Problem Statement Template:

In the tex le and fashion industries, iden fying and categorizing fabric pa erns (e.g., floral, striped, polka dot, geometric) is essen al for inventory management, design cataloguing, quality control, and customer recommenda on systems. Tradi onally, this task relies on manual inspec on, which is me-consuming, subjec ve, and prone to inconsistency.

With the growth of digital fashion pla orms and large-scale tex le produc on, there is a pressing need for an automated, scalable, and accurate method to classify fabric pa erns from images.

| l am                   | Describe customer<br>with 3-4 key<br>characteristics -<br>who are they?                            | Describe the customer and their attributes here                             |
|------------------------|--|---|
| I'm trying to          | List their outcome<br>or "Job" the care<br>about - what are<br>they trying to<br>achieve?          | List the thing they are trying to achieve here                              |
| but                    | Describe what problems or barriers stand in the way – what bothers them most?                      | Describe the problems or barriers that get in the way here                  |
| because                | Enter the "root<br>cause" of why the<br>problem or barrier<br>exists – what needs<br>to be solved? | Describe the reason the problems or barriers exist                          |
| which makes<br>me feel | Describe the emotions from the customer's point of view – how does it impact them emotionally?     | Describe the emotions the result from experiencing the problems or barriers |

Reference: h ps://miro.com/templates/customer-problem-statement/



| Problem<br>Statement<br>(PS) | I am<br>(Customer)               | I'm trying to  | But   | Because                                  | Which makes<br>me feel |
|------------------------------|----------------------------------|--|---|--|------------------------|
| PS-1                         | food<br>processing<br>plant head | make my workers manually sort to separate the ro en ones from the fresh produce. | this process is meconsuming and prone to human error. | the whole process is in manual opera ons | like frustrated        |

| freshness crucial | PS-2 | Supermarket<br>manager | maintain<br>customer sa sfac<br>on with product<br>freshness | it is difficult<br>to sort<br>manually | the freshness<br>of these<br>products is<br>crucial | like frustrated<br>to sort |
|-------------------|------|------------------------|--|--|---|----------------------------|
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