# Define the Problem Statements

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| --- | --- |
| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID39501 |
| Project Name | GrainPalette - A Deep Learning Odyssey In Rice Type Classification Through Transfer Learning |
| Maximum Marks | 2 Marks |

# Customer Problem Statement Template:

Create a problem statement to understand your customer’s point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will appreciate.  
  
A well-articulated customer problem statement allows your team to find the ideal solution for the challenges your users face. Through the process, you’ll better empathize with your customers and understand how they perceive your product or service.

# Template

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| I am (Customer) | I’m trying to | But | Because | Which makes me feel |
| Describe the customer and their attributes | List the thing they are trying to achieve | Describe the barriers that get in the way | Describe the reason the barriers exist | Describe the emotions caused by the barriers |

# Example (GrainPalette Use Cases)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Problem Statement (PS) | I am (Customer) | I’m trying to | But | Because | Which makes me feel |
| PS-1 | a smallholder rice farmer | identify and separate my rice varieties accurately after harvest | grains of different varieties look very similar | manual methods are inconsistent and require expert knowledge I don’t have | frustrated, worried about selling rice at lower prices due to misclassification |
| PS-2 | a rice trader/exporter | ensure the rice I buy and sell is of the advertised variety | I cannot reliably verify rice type | current solutions are slow, expensive, or unavailable in rural areas | anxious about market reputation and losing customers |
| PS-3 | an agricultural researcher | collect accurate data on rice varieties for breeding programs | mistakes in identifying grains reduce data quality | field conditions make manual inspection difficult and error-prone | disappointed and concerned about research accuracy |