

Ideation Phase Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID12562
Project Name	Project - Traffic and Capacity Analytics for Major Ports
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 love.

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

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

Reference: <https://miro.com/templates/customer-problem-statement/>

Example:

<small>I am</small> a traveler	<small>I'm trying to</small> book flights on my phone	<small>But</small> it takes a long time	<small>Because</small> The website is not responsive and doesn't have a mobile version	<small>Which makes me feel</small> Frustrated
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Traffic and Capacity Analytics for Major Ports

Problem Statement:

This aims at developing a Machine Learning Model for Traffic analysis for major ports. The Indian Railways has a capital base of about Rs. 100000 crores and is often referred to as the lifeline of the Indian economy because of its predominance in transportation of bulk freight and long distance passenger traffic. The network criss-crosses the nation, binding it together by ferrying freight and passengers across the length and breadth of the country. As the Indian economy moves into a high growth trajectory the Railways have also stepped-up developmental efforts and are preparing themselves for an even bigger role in the future at the same time it became hard to analyze traffic in majorports and our project helps to overcome that problem.

QUESTION	DESCRIPTION
Who does the problem affect?	Indian railways
Why is it important?	An Indian railways play major role in Indian economy it is important to analyze the traffic in major ports
What are the benefits?	<ul style="list-style-type: none">• AI along with ML model• Automatic Prediction• Data Analysis
How is it better than the others?	Faster Processing of data with higher accuracy and optimized model.
When to use?	Scenario where we want to analyze the traffic in major ports.