**Project Design Phase**
**Problem – Solution Fit**

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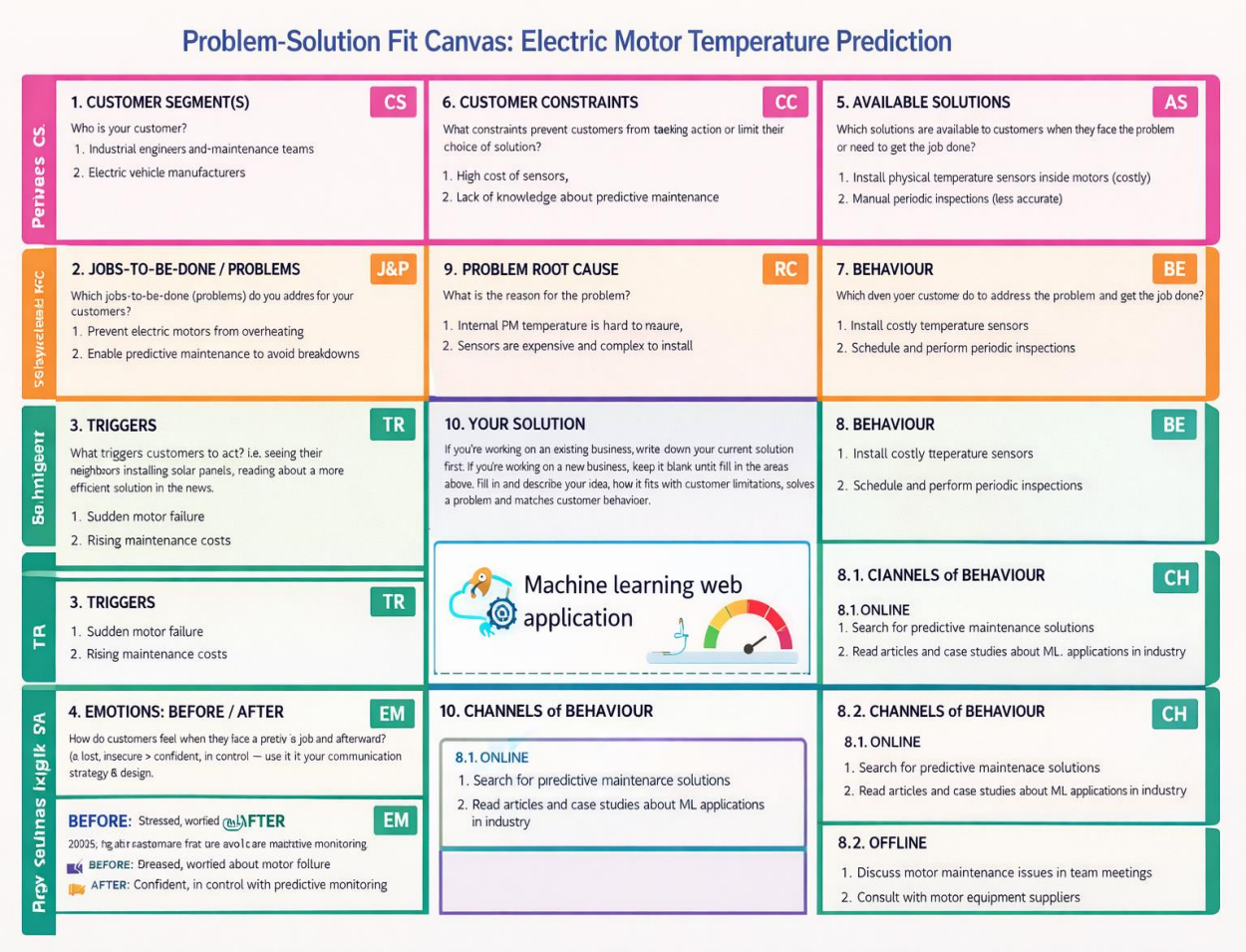
|---|---|
| Date | 18 February 2026 |
| Team ID | LTVIP2026TMIDS84143 |
| Project Name | Electric Motor Temperature Prediction using Machine Learning |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit:**

The Problem–Solution Fit canvas demonstrates that electric vehicle manufacturers and industrial maintenance teams face difficulty in measuring internal permanent magnet temperature due to high sensor cost and technical limitations. Existing solutions such as physical sensors and periodic inspections are expensive and inefficient.

The proposed machine learning-based web application directly addresses this gap by predicting motor temperature using available operational data. It aligns with customer behaviour by providing a cost-effective, real-time, and scalable predictive monitoring solution. This improves reliability, reduces maintenance costs, and enhances operational safety.




References:


1. https://www.ideahackers.network/problem-solution-fit-canvas/
2. https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe