

## Project Design Phase-I Solution Fit

Project Title: Machine Learning based Vehicle Performance Analyzer

Team ID: PNT2022TMID25852

Define CS, fit into CC	<b>1. Customer Segments</b> <span>CS</span> Automobile Manufacturers	<b>6. Customer Constraints</b> <span>CC</span> Change in existing manufacturing auto-mobile model manufacturing process.  Formation of new domain for the programming, installation & maintenance of the performance analyser	<b>5. Available Solutions</b> <span>AS</span> Investing in some other technology, But Vehicle Performance Analyser can give their customers the satisfaction of understanding their vehicle, improving its performance, etc.	Explore As, differentiate
	<b>2. Jobs-To-Be –Done/Problems</b> <span>J&amp;P</span> Lack of new technology to survive in the new era of smart automobiles.  Inability to assure durability and maintenance of automobiles.	<b>9. Problem Root Cause</b> <span>RC</span> <ul style="list-style-type: none"> <li>• Increase in fuel prices</li> <li>• Lack of Better maintenance</li> <li>• Additional support needed for unskilled labourers and guidance for general public.</li> </ul>	<b>7. Behaviour</b> <span>BE</span> Manufacture new parts with embedded technology.  Hire and form teams to program, deploy & maintain the application.  Take feedbacks and improve the model performance in new models.	
	<b>3. Triggers to Act</b> <span>TR</span> Seeing rival companies coming up with new technology.  Demand for smart technologies in vehicles.	<b>10. Your Solution</b> <span>SL</span> A system which gets raw data from the automobile, analyses the vehicle's performance, provides the analysis to the vehicle owner and guides the technicians working on optimising the vehicle performance	<b>8. Channels of Behaviour</b> <span>CH</span> - Hardware Channel: Manufacturing & installing parts to get raw data from the vehicle.  - Software Channel: Processing the raw data; Implementing the ML model; Designing the UI for people's access.	
Identify strong TR & EM	<b>4. Emotions</b> <span>EM</span> Imperiled --> Confident			Identify strong TR & EM

Focus on JP, tap into BE

Focus on JP, tap into BE

Identify strong TR & EM

Identify strong TR & EM