

Project Design Phase-I Problem Solution Fit

Date	26 September 2022
Team ID	PNT2022TMID18784
Project Name	Project - Trip Based Modeling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning
Maximum Marks	

Problem-Solution fit

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Companies and Organizations, developers and ordinary people	6. CUSTOMER CONSTRAINTS CC Low accessibility to existing solution Device compatibility	5. AVAILABLE SOLUTIONS AS A software exists which gets the dataset and after training the model, predicts the result. Various models have been developed, but have not been implemented and brought into use.	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P High Fuel Expense No Proper platform for fuel consumption prediction	9. PROBLEM ROOT CAUSE RC Lack of awareness about fuel consumption Existing solutions are minimal and does not meet user expectations	7. BEHAVIOUR BE Research about variations in fuel consumption Search for solutions online Seek suggestions from others	
Identify strong TR & EM	3. TRIGGERS TR Finding it difficult to manage fuel consumption of vehicles Realizing that the fuel expense is significantly higher than estimated	10. YOUR SOLUTION SL A website is developed which uses combination of multiple ML models to predict the fuel consumption accurately. The website has a user friendly interface and is mobile responsive. It offers various functionalities such as detailed report generation, predicting results for multiple samples simultaneously.	8. CHANNELS of BEHAVIOUR CH Online - Social Media, Forums, Blogs	Extract online & offline CH of BE
	4. EMOTIONS: BEFORE / AFTER EM Before - frustration, confused After - satisfied, feeling productive and smart		Offline - Friends and Colleagues, Consultancy, Vehicle Manufacturers	



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