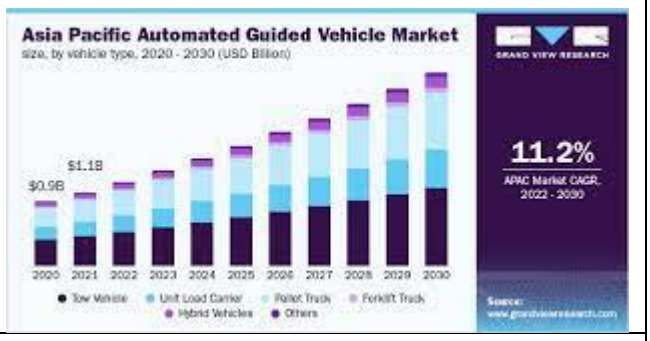
Project Design Phase-I
Proposed Solution Template

Date	3 November 2022
Team ID	PNT2022TMID52056
Project Name	Project – Intelligent vehicle damage assesssment and cost estimator insurance companies
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
•	Problem Statement (Problem to be solved)	1. proposed model is that it only identifies the physical visible damage and not of the internal or the interior damage 2.Embedding low-power, low-latency, reliable, and trustworthy intelligence into the network edge is an inevitable trend and disruptive shift in both academia and industry. 3.There are many ways to learn a new skill, but learning in a supervised manner is the most effective and efficient. This is because you're teaching the computer what you want it to do while you're working on the skil. .
•	Idea / Solution description	1. Split DL further provides a flexible way to train a DNN by dividing it into lower and upper segments located at the edge device-side and edge server-side, respectively . 2. It is generally accepted that AI can be considered in two ways: as a science aimed at trying to discover the essence of intelligence and developing generally intelligent machines, or as a science providing methods for solving complex problems 3. 3..Machine learning is a powerful tool that can be used in almost any situation or task. Here, we will focus on when machine learning is best used in the process of doing research. .
•	Novelty / Uniqueness	they applied deep learning-based algorithms, **VGG16 and VGG19**, for car damage detection and assessment in real

		world datasets. The algorithms detect the damaged part of a car and assess its location and then its severity. Initially, it discovers the effect of domain-specific **pre-trained CNN models,** which are trained on an **ImageNet dataset**, and followed by fine-tuning, because some of the categories can be fine granular to get a specific task
•	Social Impact / Customer Satisfaction	Cars are a major contributor to **air pollution producing significant amounts of nitrogen oxides, carbon monoxide, and particulate matter**. 80-90% of cars' environmental impact comes from fuel consumption and emissions of air pollution and greenhouse gases. **Vehicle pollutants harm our health and contain greenhouse gases that cause climate change**. Burning gasoline and diesel fuel creates harmful byproducts like nitrogen dioxide, carbon monoxide, hydrocarbons, benzene, and formaldehyde. In addition, vehicles emit carbon dioxide, the most common greenhouse gas.
•	Business Model (Revenue Model)	
•	Scalability of the Solution	**VGG16.** The transfer learning could significantly reduce the training times when it uses the weights of pre trained VGG models , it had demonstrated significant progress on how to solve classification problems when the small dataset was not enough to train a **CNN model** .