Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID00234
Project Name	Project – Machine Learning-based predictive analytics for aircraft engine
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Utilising machine learning to predict aircraft engine failure in order to prevent waste of time, effort, and money and increase productivity.
2.	Idea / Solution description	By putting in the sensors and monitoring the values, the fault can be found. Any device may be subject to failure detection and preventive maintenance, but we will be dealing with engine failure for a predetermined number of days. Avoiding structural issues as well as fuel issues like pollution and depletion.
3.	Novelty / Uniqueness	The engine is the beating heart of the aeroplane, converting fuel energy into mechanical energy by generating motion.
4.	Social Impact / Customer Satisfaction	The impact on society is significantly influenced by safety and security. The consumer expects the services to be timely, comfortable, and convenient.
5.	Business Model (Revenue Model)	In terms of the money a carrier generates and the products it offers, the developing business models in the airline sector are discussed.
6.	Scalability of the Solution	This suggested remedy is incredibly scalable. i.e., incorporating new features to improve our engine's performance and raise safety.