Project Design

Phase-I Proposed Solution

Date	02 OCTOBER 2022
Team ID	PNT2022TMID45543
Project Name	Machine Learning-Based Predictive Analytics for Aircraft Engine.
Maximum Marks	4 Marks

Proposed Solution:

S. No	Parameter	Description
1	Problem Statement (Problem to be solved)	> To predict the failure of an engine by using Machine Learning to save loss of time & money thus improving productivity.
2	Idea / Solution description	> Machine learning (ML) is a type of artificial intelligence (AI) that allows software applications to become more accurate at predicting outcomes without being explicitly programmed to do so. > Structural failures where a broken connecting rod, crank, valve, or camshaft is present account for seventeen percent of engine failures occurs. > The failure can be detected by installing the sensors and keeping a track of the values.
3	Novelty / Uniqueness	> An aircraft engine (or aero engine) is a propulsion system for an aircraft. >Aircraft engines are the key module or the heart in aviation progress.
4	Social Impact / Customer Satisfaction	> The advent of human flight not only boosted our power

		of movement, but also enhanced our vision.
5	Business Model (RevenueModel)	> The reliability analysis is also important to predict their scheduled maintenance event and the Remaining Useful Life (RUL) of engine parts.
6	Scalability of the Solution	> This app can help customers to get updates of the flight of any part of the flight.