

Project Design Phase – I

PROPOSED SOLUTION

TEAM ID	PNT2022TMID44328
PROJECT TITLE	Machine Learning-Based Predictive Analytics for Aircraft Engine
DATE	19 October 2022

SOLUTION FOR PROBLEMS :

S.No	PARAMETERS	DESCRIPTION
1.	Problem Statement	To predict the failure of an engine by using Machine Learning to save loss of time & money thus improving productivity.
2.	Idea / Solution description	<p>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.</p> <p>Structural failures where a broken connecting rod, crank, valve, or camshaft is present account for seventeen percent of engine failures occurs.</p>
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.	4 Social Impact / Customer Satisfaction	The advent of human flight not only boosted our power of movement and also Enhanced our vision.
5.	Business Model (Revenue Model)	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.