PROJECT DESIGN PHASE-1

PROPOSED SOLUTION TEMPLATE

DATE	23.09.2022
TEAM ID	PNT2022TMID35478
PROJECT NAME	PREDICTIVE ANALYSIS OF AIRCRAFT ENGINE FAILURE
MAXIMUM MARKS	2 MARKS

PROPOSED SOLUTION:

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	**Statement:** The predictive analysis of aircraft engine is to recognize malfunction of aircraft engines in advance to avoid disasters. **Description:** It is a hard task for the developed machine learning to predict with cent percent accuracy because unpredicted situations may happen.
2.	Idea / Solution description	1) It is possible to predict the engine failures in advance by analyzing the previous aircraft engine failure datasets. 2) It facilitates pilots/airline operators and other aircraft related technicians to precheck the engine failure possibilities using the machine learning tool so that overall probability of engine failure can be reduced.
3.	Novelty / Uniqueness	Can learn from the present situation and enhance the system can improve its performance automatically
4.	Social Impact / Customer Satisfaction	1)This machine learning tool predicts the aircraft engine failure probability

		2) It compares the current situation factors like engine temperature, weather, plane load, distance to be covered etc., with input datasets and provides us the possibility of engine failure.
5.	Business Model (Revenue Model)	1)System can be integrated with airline association to ensure the safety of passengers. 2)Can be integrated with defense airlines to predict and recognize the aircraft system malfunctions in prior.
6.	Scalability of the Solution	1) It is capable of guiding the airline operators to enhance the safe air travel. 2)This system takes less input power and can predict more accurately if more datasets are provided.