Project Design Phase – I

PROPOSED SOLUTION

|  |  |
| --- | --- |
| ***TEAM ID*** | ***PNT2022TMID46985*** |
| ***PROJECT TITILE*** | ***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* | *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.* |
| *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.* |