Proposed Solution

- **Problem statement**:

  Machine Learning-Based Predictive Analytics For Aircraft Engine by Data science.

- **Idea /solution description:**
  - ✓ Predicting the failure prior will save time, effort, money and sometimes even lives.
  - ✓ The failure can be detected by installing the sensors and keeping a track of the values.

- **Novelty/Uniqueness:**
  - ✓ Supervised machine-learning algorithms for regression and classification were Employed to study patterns in an existing, open-source database of production.

- **Social impact / customers satisfaction:**
  - ✓ As literature systematic review of employed ML on PdM for aircraft engine.
  - ✓ PdM indicated state of machine to performed schedule to maintenance based on historical data, integrity factors and engineering approaches.
  - ✓ DL algorithm widely employed such as image processing, face and speech recognition.

- **Business model (Financial Benefit):**
  - ✓ TSFC is also an indicator of engine operating cost.
  - ✓ The DNN model performs well consistently for both the training and testing datasets.

- **Scalability of solution**:

  Scalable