Project Design Phase-I
Proposed Solution Template

Date	01 October 2022
Team ID	PNT2022TMID00602
Project Name	Project - Developing a Flight Delay Prediction Model using Machine Learning
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The development of accurate prediction models for flight delays became cumbersome due to the complexity of air transportation system, the number of methods for prediction, and the deluge of flight data.
2.	Idea / Solution description	We propose taxonomy and summarize the initiatives used to address the flight delay prediction problem, according to scope, data, and computational methods, giving particular attention to an increased usage of applied data science methods.
3.	Novelty / Uniqueness	We also present a timeline of significant works that depicts relationships between flight delay prediction problems and research trends to address them
4.	Social Impact / Customer Satisfaction	Flight delays hurt airlines, airports, and passengers. Their prediction is crucial during the decision-making process for all players of commercial aviation.
5.	Business Model (Revenue Model)	The main aim of the project was to investigate factors influencing flight delays of a European airline. Besides the identification and analysis of those factors the project offers possible suggestions on how to eliminate the delays. The research is based on data acquired over the period of time spanning.
6.	Scalability of the Solution	Predicting flight delays can improve airline operations and passenger satisfaction, which will result in a positive impact on the economy.