

## Project Initialization and Planning Phase

|               |   |
|---------------|---|
| Date          | 28 July 2025                                    |
| Project Title | Flight Delays Prediction Using Machine Learning |
| Maximum Marks | 3 Marks   |

### Project Proposal (Proposed Solution) report

Flight delays are a significant issue in the aviation industry, leading to financial losses for airlines and inconvenience for passengers. Predicting whether a flight will be delayed based on historical flight and schedule data can help improve operational planning, optimize resource allocation, and enhance passenger experience.

| Problem Statement (PS) | I Am (User)                   | I'm trying to                            | But                                       | Because                                  | It makes me feel                       |
|------------------------|-------------------------------|--|---|--|--|
| PS-1                   | Customer                      | Plan my travel effectively               | Flight delays are unpredictable           | There is no accurate delay information   | Frustrated, anxious and Inconvenienced |
| PS-2                   | An airport / Airline Operator | Optimise flight scheduling and resources | Delays cause cascading operational issues | Lack of proactive delay prediction tools | Inefficient, reactive and overburdened |