

Project Design Phase-I Proposed Solution

Date	12 October 2022
Name	Ranjith Kumar. V
Register Number	722819104111
Project Name	Project – Airlines Data Analytics For Aviation Industry's
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)	❖ With the growing demand for air transportation and the limited ability to increase capacity at some key points in the air transportation system, there are concerns that in the future the system will not scale to meet demand. This situation will result in the generation and the propagation of delays throughout the system, impacting passengers' quality of travel and more broadly the economy.
2.	Idea / Solution description	❖ Understanding traveler demand for specific city pairs and pricing flights can be done using data analytics project. Airlines use this biometric technology as a boarding option. The equipment scans travelers' faces and matches them with photos stored in border control agency databases.
3.	Novelty / Uniqueness	<p>❖ The ultimate benefits of big data analytics include timely responses to current and future market demands, improved planning and strategically aligned decision making, as well as crystal clear comprehension and monitoring of all main performance drivers relevant to the airline industry.</p> <p>❖ Due to the use of smart data analytics, passengers will avoid many issues with baggage tracking. While radio-frequency identification prevents mishandling the baggage, predictive analysis assists in improving the predictability of fleet reliability.</p>

4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ❖ Data analytics helps the industry to understand customers' preferences and other maintenance issues. ❖ For instance, analysis of ticket booking helps the industry to target the customers with personalized offers while optimizing the price in real-time using predictive analysis techniques. As a result, by gathering meaningful data, airlines can fetch more bookings in the given timeframe.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ❖ Business models innovation in airlines can contribute to the creation of value, competitive advantage and profitability with new possibilities of action.