Ideation Phase
Literature Survey

Date	19 September 2022
Team ID	PNT2022TMID25103
Project Name	Airline data Analytics for Aviation Industry
Maximum Marks	4 Marks

Literature survey:

Analytics on Big Aviation Data (2014): Turning data into insight, International Journal of Computer Science & Applications.

Author: Akerkar.R

This paper mentions that, the business world is undergoing a revolution driven by the use of data and analytics to guide decision-making. While many forces are at work, a major reason for the business analytics revolution is the rapid proliferation of the amount of data available to be analysed. Recent days, big data is beginning to have a major impact on air travel with more data being created both through the plane sensors and the passengers on board; the opportunities to use this data will only increase. It provides innovative companies with the opportunity to improve major aspects of their business, from using data to improve customer retention through to making planes safer and more reliable. In this paper we discuss a big data concept, definitions, and further present some cases for aviation industry to analyse data from every conceivable channel, for instance, customer data to create a unique profile for each customer based on a wide range of demographic data, behaviors, and preferences.

Civil Aircraft Big Data Platform (2017): IEEE 11th International Conference on Semantic Computing (ICSC).

Authors: S. Li, Y. Yang, L. Yang, H. Su, G. Zhang and J. Wang

The researcher in this article cited that, the aviation industry generates massive data every day. By analyzing the aviation big data, aviation manufacturers and airlines can optimize the flight of civil aircraft including risk reducing, operation optimization, and personalized services. Building a platform for storing and analyzing the aviation big data becomes an important task for civil aviation. This paper proposes a civil aircraft big data platform that works on facilitate the development of civil aviation. The platform collects data from multiple types of data sources, including air crafts, airlines, and maintenance centers. The platform provides decision making support for civil air crafts including maintenance plan, real-time alarm, health management, fuel saving, and airline schedule. The paper introduces the architecture of the platform and present applications to show how the platform facilitates civil aviation.