

AIRLINE DATA ANALYTICS FOR AVIATION INDUSTRY

LITERATURE SURVEY

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LITERATURE SURVEY

S.NO & TITLE	PROPOSED WORK	TOOLS USED /ALGORITHMS	TECHNIQUE & COMMENT	ADVANTAGES /DISADVANTAGES
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LITERATURE SURVEY

<p>1) Big Data Analytics on Aviation</p>	<p>The aviation industry generates large quantities of complex, unstructured, and rapidly changing data, requiring specialized analysis tools to explore these big datasets for useful business knowledge. Many researchers have investigated big-data-related topics in the aviation industry</p>	<ul style="list-style-type: none"> • Big data analytics 	<ul style="list-style-type: none"> • Sentiment analysis <p>Comments: With the popularity of social networks, the aviation industry should gradually use the platform to improve passenger services and their competitiveness further. For example, the Washington Post reported that a growing number of U.S. airlines, including Southwest Airlines, United, and Delta, have begun to use social media to solve passengers' complaints.</p>	<p>Advantage:</p> <p>Provide clear idea about the effective level of each classifier on phishing email detection.</p> <p>Disadvantage: Non-standard classifier</p>
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<p>2) Exploratory Data Analysis on Aviation Dataset</p>	<p>This paper proposes that the Big Data analytics can be used in the airline industry to improve the performance of aviation operation . Data collected from customer profiles, social behavior, etc. can be efficiently used by airlines to provide personalized services to customers. They can also be used to analyze passenger flow, cost reduction and to enhance revenue.</p>	<ul style="list-style-type: none"> Predictive Analytics, Correlations, Regression 	<p>•Big Data, Predictive Analytics, Correlations, Regression</p> <p>Comment: Classification accuracy is highly dependent on the individual user.</p>	<p>Advantage: Fast in classification process.</p> <p>Disadvantage: Less accuracy because it depend on unsupervised learning, need feed continuously.</p>
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3) Impact of the COVID-19 Pandemic on the Indian Domestic Aviation Industry	<p>This paper helps us understand how the The aviation industry is highly volatile in nature, deeply impacted by a number of factors, including but not limited to, the oil crises, pandemic outbreaks, terrorism and changes in international regulations.</p>	<ul style="list-style-type: none">• Data Analytics	<ul style="list-style-type: none">• Data Analytics <p>Comment: The COVID-19 pandemic brought out significant changes in the operation of flights. The Government of India imposed a lockdown in the country and a two-month ban on commercial domestic air travel in addition to restricting international flights in the early months of 2020. Owing to these restrictions, the passenger and flight traffic drastically plummeted not only during the ban but remained low for a few months after as well. The protocol of social distancing led to very low PLF in the airlines for a long time after the resumption of domestic flights..</p>	<p>Advantage: High level of accuracy by take the advantages of many classifiers.</p> <p>Disadvantage: Time consuming because this technique has many layers to make the final result.</p>
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Thank you