

Aviation Analytics Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Component (Services, Solutions), By Deployment (Cloud, On-premise), By Business Function (Finance, Operations, Maintenance and Repair, Sales and Marketing, Supply Chain, Others), By Application (Flight Risk Management, Fuel Management, Rout Management, Fleet Management, Inventory Management, Wealth Management, Performance Monitoring, Inspection, Predictive Analysis, Part Replacement, Supply Chain Planning, Energy Management, Emergency Management, Mobility and Functionality, Customer Analytics, Others), By End User (Original Equipment Manufacturers, Airlines, Airports, Maintenance Repair and Overhaul), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/A8E6FA6AEDFDEN.html>

Date: January 2026

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: A8E6FA6AEDFDEN

Abstracts

The Global Aviation Analytics Market will grow from USD 4.46 Billion in 2025 to USD 9.87 Billion by 2031 at a 14.16% CAGR. Aviation analytics involves the utilization of advanced data processing and computational algorithms to extract actionable insights from flight, passenger, and operational datasets. The market is primarily driven by the imperative to optimize fuel consumption and the necessity for predictive maintenance to

minimize costly downtime.

Key Market Drivers

The increasing integration of Big Data, Artificial Intelligence, and Machine Learning technologies is fundamentally reshaping the aviation analytics market by enabling operators to unlock significant operational efficiencies. Airlines are deploying these computational tools to analyze vast streams of flight information, optimizing flight paths and fuel consumption while enhancing safety protocols. This digital shift allows carriers to move beyond reactive measures toward proactive strategies, leveraging granular datasets to refine pilot performance and reduce environmental impact.

Key Market Challenges

The prevalence of legacy IT infrastructure constitutes a primary obstacle restricting the growth of the aviation analytics market. A substantial number of airlines and airports rely on fragmented, older systems that were not originally designed for modern high-volume data exchange. This technical framework results in isolated information pools, which prevents the seamless aggregation of operational and passenger data.

Key Market Trends

The proliferation of sustainability and carbon emission analytics is becoming a central focus as the industry grapples with stringent environmental regulations and the transition to net-zero operations. Unlike traditional fuel burn monitoring, this trend emphasizes the integration of granular data to track Scope 3 emissions and manage complex Sustainable Aviation Fuel (SAF) supply chains. Carriers are adopting specialized platforms to verify SAF usage and ensure compliance with international carbon reporting standards, moving beyond simple efficiency measures to holistic environmental management.

Key Market Players

International Business Machine Corporation

General Electric Company

Honeywell International

IGT Solutions Pvt. Ltd.

OAG Aviation Worldwide Limited

Oracle Corporation

Ramco Systems Limited

SAP SE

SAS Institute Inc

Accelya Group

Report Scope:

In this report, the Global Aviation Analytics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Aviation Analytics Market, By Component:

Services

Solutions

Aviation Analytics Market, By Deployment:

Cloud

On-premise

Aviation Analytics Market, By Business Function:

Finance

Operations

Maintenance and Repair

Sales and Marketing

Supply Chain

Others

Aviation Analytics Market, By Application:

Flight Risk Management

Fuel Management

Rout Management

Fleet Management

Inventory Management

Wealth Management

Performance Monitoring

Inspection

Predictive Analysis

Part Replacement

Supply Chain Planning

Energy Management

Emergency Management

Mobility and Functionality

Customer Analytics

Others

Aviation Analytics Market, By End User:

Original Equipment Manufacturers

Airlines

Airports

Maintenance Repair and Overhaul

Aviation Analytics Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Aviation Analytics Market.

Available Customizations:

Global Aviation Analytics Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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