Accelerate innovation in the aviation sector with Red Hat OpenShift AI

The aviation sector is a complex, high-pressure environment. Smart use of AI can boost productivity, grow revenues, and simplify fleet management. Red Hat® OpenShift® AI provides self-service capabilities and specialist tools to improve AI developer efficiency. Red Hat Services help airlines build a trusted foundation to accelerate AI development, identify use cases, and upskill their teams.

Establishing the right foundation for AI development in aviation

From route planning and crew management to fleet maintenance and dynamic ticket pricing, the opportunities for artificial intelligence (AI) to reshape aviation are considerable. But, as one of the world's most complex and highly regulated sectors, establishing the right framework, cleaning and connecting data, and finding the right platform for AI development are paramount.

In real terms, that means implementing a unified platform, establishing a self-service model for deployment and training, and finding the right support and AI accelerators to maximize return on investment.

Accelerating AI development with support from Red Hat Consulting

Red Hat Consulting can help airlines to combine industry-specific expertise with real-world experience when setting up their AI platforms. Red Hat Technical Account Managers (TAMs) are available to serve as single points of contact and technical advisors, guiding airlines through their AI adoption.

Red Hat Services supports companies across the sector as they run proofs of concept to find the right technology and get buy-in from stakeholders. Working alongside the Red Hat team, airlines can identify and prioritize use cases that align with their strategic goals and challenges. They can also bridge gaps between teams to encourage collaboration.

With Red Hat Training, organizations can upskill and certify their teams with trusted learning pathways or bespoke enablement sessions and workshops. Red Hat also offers a prepackaged AI and machine learning (ML) platform framework to establish best practices from Day 1. The goal is to leave airlines with sustainable skills, so they have the knowledge and confidence to take charge of their AI strategies.

Adopting DevOps and a trusted AI development platform

Red Hat OpenShift AI is a trusted and consistent platform for managing predictive and generative AI models at scale across hybrid cloud environments—ideal for avoiding vendor lock-in and complying with data sovereignty requirements when deployed on bare metal.

For existing Red Hat customers, Red Hat OpenShift AI extends AI capabilities into their tech stacks, providing the right tools to manage hardware and ML operations (MLOps), create predictive models, and orchestrate hardware requirements. Combined with Red Hat OpenShift Platform Plus and Red Hat Ansible® Automation Platform, it speeds up time to market while consolidating management onto a central platform.

Airlines can also benefit from shifting away from traditional development methods—for example, adopting agile approaches such as DevSecOps and setting up self-service capabilities for data scientists.

Adding value across the organization with a framework for success

With Red Hat Services, airlines can:

▶ Define a clear roadmap of achievable use cases.

▶ Get stakeholder and user buy-in.

▶ Create a robust framework of tools and governance.

▶ Build in-house skills with pre-defined pathways, workshops, and enablement sessions.

▶ Work with Red Hat TAMs for fast technical experiences and leadership.

Meanwhile, adopting Red Hat technologies will:

▶ Accelerate sustainable AI adoption with a scalable, Kubernetes-native, MLOps platform.

▶ Improve forecasting based on historical and real-time insights.

▶ Optimize processes across multiple departments.

▶ Speed up development with automation.

▶ Consolidate management onto a central platform.

Advancing the AI development lifecycle with confidence

Airlines are seeing significant results with OpenShift AI and Red Hat Services. Not only can they develop new AI models faster by following established frameworks, but they can also develop with confidence that data is protected, compliance regulations are being met, and they're focusing on the right use cases to achieve their goals.

Collaborating with Red Hat Services can help to embed continuous feedback loops into AI operations. With the right support, resources, data, and skills, organizations can work jointly with Red Hat to not just navigate, but to shape the AI revolution in aviation.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. A trusted adviser to the Fortune 500, Red Hat provides award-winning support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

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