

Two out of Three Enterprises Use Hybrid Cloud to Power AI Initiatives

As artificial intelligence (AI) and machine learning (ML) continues to be more broadly adopted by enterprises around the world, the technology is being used in a variety of ways to generate significant business benefits—like improved productivity, enhanced product quality, and reduced costs.

And despite so many different AI/ML vendors and architectures, most technology leaders are using open source tools and cloud-based infrastructure to power their initiatives.

Red Hat used the Gartner Peer Community platform to survey 300 enterprise IT and data leaders who use AI and ML to uncover why they implemented the technology, the types of AI/ML tools they rely on, and the most popular initiatives they're investing in.

Data collected from September 5, 2022 - February 14, 2023

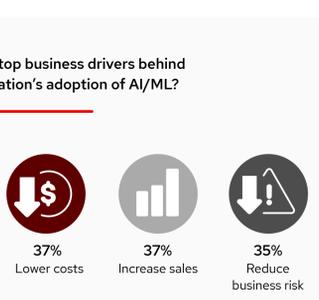
Respondents: 300 enterprise IT and data leaders



Enterprises are using AI to boost productivity and generate predictive analytics

The vast majority of respondents (86%) say they've already started using AI/ML.

Has your organization started adopting AI/ML?



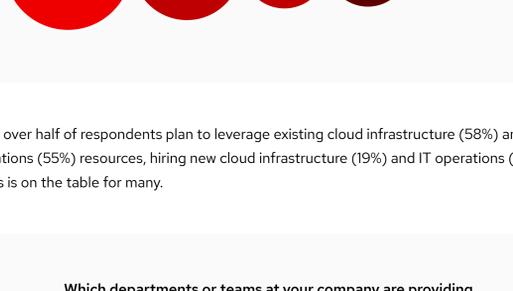
The top reasons today's enterprise technology leaders are using AI and ML are to improve product or service quality (78%) and improve worker productivity (68%).

What are the top business drivers behind your organization's adoption of AI/ML?



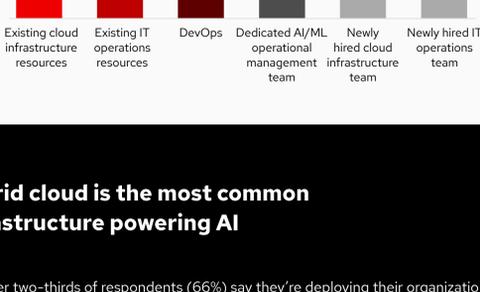
To achieve these goals, the main initiatives they're powering with AI and ML are predictive analytics (72%), fraud detection (62%), and digital security (48%).

Which of the following use cases are you looking to gain insight about/solve using data from your AI/ML initiatives?



While over half of respondents plan to leverage existing cloud infrastructure (58%) and IT operations (55%) resources, hiring new cloud infrastructure (19%) and IT operations (19%) teams is on the table for many.

Which departments or teams at your company are providing operational management for your AI/ML initiatives?



Hybrid cloud is the most common infrastructure powering AI

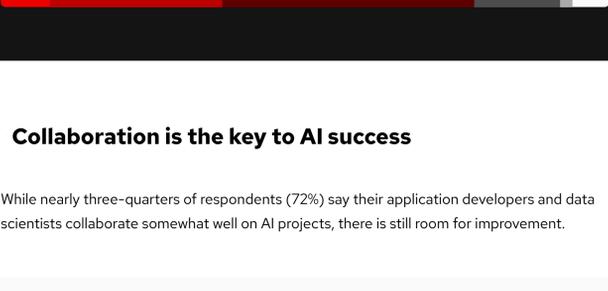
Just under two-thirds of respondents (66%) say they're deploying their organization's AI/ML projects via a hybrid cloud today.

Where are your organization's AI/ML projects deployed today?



Over two-thirds (69%) say that up to 50% of their company's AI/ML projects will be deployed using hybrid cloud infrastructure over the next 12 months. And 22% will deploy most of their projects on hybrid cloud.

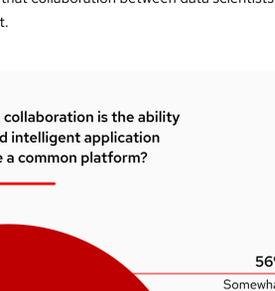
Over the next 12 months, what percentage of your company's AI/ML projects will be deployed using hybrid cloud infrastructure?



Collaboration is the key to AI success

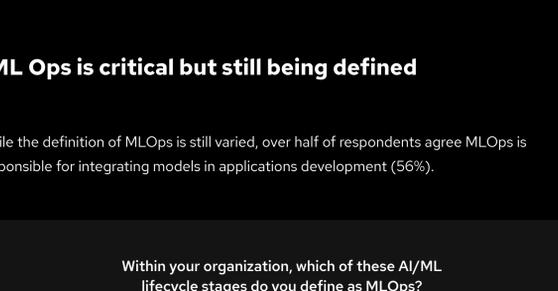
While nearly three-quarters of respondents (72%) say their application developers and data scientists collaborate somewhat well on AI projects, there is still room for improvement.

How well do data scientists and application developers collaborate today with AI projects?



Additionally, nearly all respondents (97%) say that collaboration between data scientists and app developers is somewhat or very important.

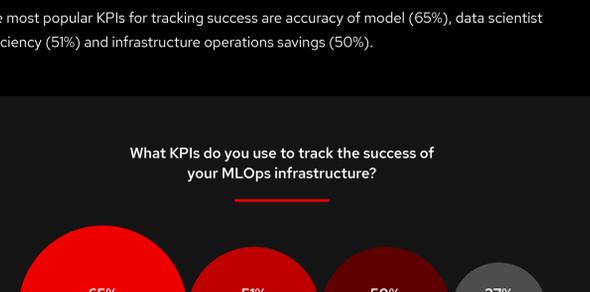
How important for team collaboration is the ability for data scientists and intelligent application developers to share a common platform?



ML Ops is critical but still being defined

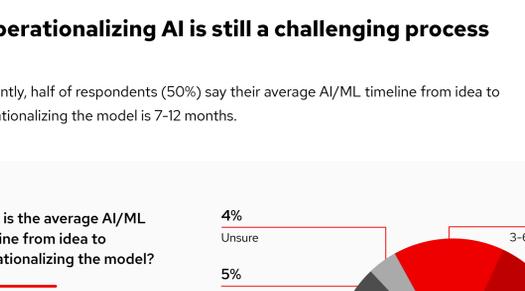
While the definition of MLOps is still varied, over half of respondents agree MLOps is responsible for integrating models in applications development (56%).

Within your organization, which of these AI/ML lifecycle stages do you define as MLOps?



The most popular KPIs for tracking success are accuracy of model (65%), data scientist efficiency (51%) and infrastructure operations savings (50%).

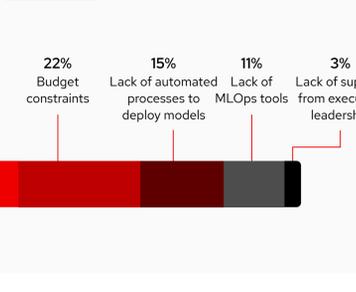
What KPIs do you use to track the success of your MLOps infrastructure?



Operationalizing AI is still a challenging process

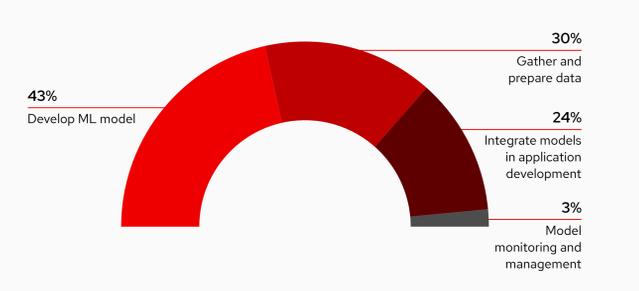
Currently, half of respondents (50%) say their average AI/ML timeline from idea to operationalizing the model is 7-12 months.

What is the average AI/ML timeline from idea to operationalizing the model?



Nearly half of respondents (49%) cite the talent shortage as the primary challenge when trying to operationalize their AI model.

What is the main challenge when trying to operationalize your AI model?



Developing the ML model is the slowest stage in the AI/ML lifecycle for 43% of respondents.

Which stage is the slowest (bottleneck) in your AI/ML lifecycle?



Respondent breakdown

Region



Title

Company Size

