The Al journey from concept to delivering benefits

Developing and deploying artificial intelligence (AI) solutions absorbs an increasing share of companies' budgets and resources. Al operations translate these capital and human investments into practical advantages. They accomplish outcomes that greatly benefit companies and the people they serve.

In AI operations, professionals in various industries and organizations rely on AI solutions to help people make decisions and act at the right time to keep processes moving. Use cases for Al operations typically depend on software applications, networking technology and data storage. What's more, users in almost every Al operations scenario rely on powerful workstations to do their jobs. This infographic provides an overview of AI development, deployment and operations, highlighting common use cases where workstations are essential.



Al development: Addressing business issues Large portions of Al development involve strategizing, identifying

data sources and preparing data for processing.

- Approximately 80% of Al effort is spent on data acquisition, cleansing and staging.
- · Data scientists and developers work with organizational data to create, revise and train Al solution models.
- · Development can take place on workstations, servers or cloud resources.
- · Then comes the Al deployment phase.

Al deployment: Enabling inference Deployment puts the resulting Al services on servers, in the cloud

or on workstations. · Al specialists implement trained and tested models that derive

- inferences from data. · Companies often develop a proof-of-concept prototype before
- scaling up for production use.
- · Relying on edge services and IoT data streams, Al services garner the lion's share of attention and visibility.

In Al operations, professionals spanning wide ranges of industries

Al operations: Creating value

and markets rely on Al capabilities to support many use cases. · Interactions between human operators and AI solutions are

- essential to reap the benefits of Al. Many professional roles benefit from Al inferences.
- · Solutions providers face a large, sometimes overlooked growth
- opportunity in Al operations. • Al operations can achieve dramatic results — for instance:
 - Saving the lives of workers and medical patients.
 - Improving quality, speed and outcomes of medical care.
 - · Enabling prompt, smart decisions and actions by
 - transcending the limits of human attention.

Why are workstations a good fit for Al operations? Computer workstations are present in almost every scenario of Al operations. What makes

them great resources for users and organizations?

- Provide easy-to-use interface for digitally literate professionals.
- · Offer computing power to run trained inference models interacting with other applications.
- Can be fixed or mobile to suite many usage scenarios.
- Support evolving usage with reliability and versatility.
- · Can connect with vast ranges of peripherals, data storage systems and specialty hardware. Simplify updating and managing from central administrator consoles.



Al operations Al solutions running on workstations prove their value

High-impact use cases for

in many different usage scenarios. The samples below highlight typical, widely adopted use cases among hundreds of similar ones.

Radiology Users: radiologists and medical specialists.

- Challenge: need to review large numbers of medical
- images, often with only seconds to spend on each. Advantages:
- Bring attention to details that need closer evaluation. · Allow operators to step in when they can truly make a difference.
 - · Avoid operator burnout and delayed responses to patients' needs.
- **Telehealth** · Users: intake staff, doctors, nurses, emergency personnel.
- Challenge: ensure the productivity of telehealth consultations and consider all important information.
- · Enhance diagnostic accuracy.

Advantages:

- · Have productive, focused patient conversations. · Accelerate and improve the effectiveness of triage.





Challenge: address potential issues quickly and assume greater responsibility in keeping workers and the public

Public safety

first responders.

safe and healthy. Advantages:

• Users: security professionals, facilities managers,

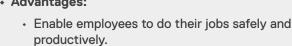
- · Respond faster and more accurately to risk situations. · Broaden the mission of safety teams.
 - · Strengthen security without adding staff.
- **Manufacturing operations**

• Users: production managers, maintenance managers. • Challenge: keep complex production processes and

- machinery running safely and meet quality and volume targets. Advantages:

· Ensure consistent output quality.

- · Manage industrial assets for best performance. · Proactively eliminate unscheduled equipment downtime. Maintain safe working conditions.



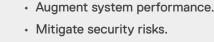
· Ensure uninterrupted services. · Keep equipment and facilities anywhere in optimal

working condition.

AIOps

Users: development leads, IT managers, cybersecurity

- · Challenge: ensure optimal performance and integrity of
 - applications, services and systems.
- Advantages: · Improve service availability and stability.
 - · Mitigate security risks.





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