



A checklist to help you
plan and manage your next AI or
Data Science integration project

AI Enterprise Integration Checklist



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You may also be interested in our [APPLICATION INTEGRATION CHECKLIST](#) which helps you plan for any type of enterprise integration project.

Many organizations are now moving their AI and data science projects from concept to production. Integrating AI and data science applications with enterprise data and systems brings specific new challenges – over and above those involved with integrating any application. Use our checklist to make sure you're ready to operationalize your AI.

Plan

For your AI project to be successful you need to start with a clear vision of what you want to achieve - what is the business challenge that you want to translate into a problem to be solved with AI? Consider who will use the solution, and the team who will build it.

Goal

- ▶ What is the overall business objective for the AI project?
- ▶ Who will use the solution? Consider different personas and their needs.
- ▶ How are the users currently working - what problems do they have and how will this solution improve the user experience?
- ▶ Is there a clear understanding of how the AI solution will be used?
- ▶ How will you measure the success of the project, what are the KPIs?

Team

- ▶ Who are the stakeholders, and are they aligned?
- ▶ Does the project team have all the required skills and knowledge? Consider domain knowledge, AI / data science, enterprise IT and systems integration.

Data

Readily available, high quality data powers your AI solution. The data you need to fuel and enrich your AI is likely spread around the organization, from spreadsheets to data lakes, from cloud services to legacy enterprise applications. You'll need to understand:

Sources and format

- ▶ What data do you need to enrich your AI (e.g. for conversational AI dialogs, personalization, or processing a customer transaction)?
- ▶ Where is the data stored?
- ▶ What is the quality of the data? Does it require cleansing?
- ▶ Is the data in the right format?
- ▶ Will any data transformations be needed?
- ▶ Will you need to consolidate or reconcile data before integrating?

Access

- ▶ How will you access the data? If you are using Python, what data access framework will you use?
- ▶ Do you have appropriate connectors for all of the data sources?
- ▶ How will the data be used and managed, and does this meet compliance and security requirements?
- ▶ Will you be using any sensitive data (e.g. Personal Identifiable Information (PII), Payment cards, Sales data, Trade secrets)?
Will sensitive data be segregated and protected?
- ▶ Have all necessary data protection and privacy regulations been addressed? (e.g. GDPR, CCPA, HIPAA etc)

Applications

At some point, you will likely want to integrate and embed your AI solution with other applications and processes that power your business.

Consider how you will connect Python-based AI solutions with Java-based enterprise technologies and systems; do you have the required tools and know-how? Will you need custom development?

Business integration

- ▶ Which business applications do you need your AI solution to connect with?
- ▶ Have you identified any application queries needed to provide input or enrichment data to your AI?
- ▶ Are there any business processes or application transactions you need the AI to initiate?
- ▶ Will you need to orchestrate business processes or workflows spanning your AI and enterprise apps?

Technical integration

- ▶ How will you integrate your AI app with modern enterprise cloud container and microservices architecture?
- ▶ How will you connect applications written in different programming languages? Will you need a language bridge between Python / Java / other languages?
- ▶ If you are using APIs, do they support introspection to allow other applications to automatically interface with them?
- ▶ How much custom coding will you need? Should you consider a no-code integration platform?
- ▶ How often will you need to change integrations?
- ▶ How much effort will be required – will you be able to reuse modular or building block code?

Operations

Once you have a working AI application and know how to integrate it with your business processes and workflows, you should plan for in-service operation. Consider performance and service levels required, and how you will release improvements and updates.

Performance

- ▶ How will you test your solution under heavy load, will its performance scale appropriately?
- ▶ What level of integration service availability is required?
- ▶ How will integration errors be identified and rectified?
- ▶ Do any integrations require automatic restart to ensure completion?
- ▶ Should you consider an integration platform capable of self-healing error detection and recovery?

Continuous improvement

- ▶ Will you release iteratively? Limit the number of items in each release of your solution and plan to release frequently
- ▶ Do you have a continuous integration / continuous delivery (CI/CD) pipeline for enterprise applications?
- ▶ How will you include your AI and data science components in CI/CD processes?

Launch

Bring everything together for a successful project launch. Consider how you will monitor, develop and expand the AI capabilities and integrations.

Roll-out

- ▶ Do you have a prototype or limited use-case you can start with?
Starting small enables you to iron out teething issues that might otherwise lead to negative perceptions of the project
- ▶ Will people need training on the solution? How will that be delivered?
- ▶ Are all stakeholders and users aware of the launch? Communicate often as you lead up to launch.

Scale

- ▶ How will you monitor the performance of your AI app?
- ▶ Have you planned for frequent AI model retraining and deployment without breaking operations?
- ▶ How will you gather feedback and make improvements to the solution?
- ▶ Have you incorporated mechanisms for explicit user feedback as well as implicit machine learning?



A Simpler Solution

Want to make things easier next time? Qore's AI Automation Platform enables you to operationalize AI by connecting to enterprise data, processes and systems like CRM, service desk, sales order processing and more.

Connect your AI solution using simple no-code configuration of reusable building blocks and native Python / Java integration. And visually build and modify workflows to create efficient, high-performance and easy to manage automations with Qorus dynamic process orchestration.

Find out more ► qoretechnologies.com

