Data Science Project Management

Accelerate Research with Consistency and Best Practices

Research involves iterative experimentation and hypothesis testing. Data scientists often try hundreds of ideas that don't work — those results are unavoidable and valuable in their own right. And breakthroughs often come from cross-pollination of ideas between team members.

Project management helps teams create consistency and provide visibility for stakeholders — but the unique nature of data science makes traditional project management tools ill-suited for the non-linear nature of research.

Project Management for Data Science

Domino has re-imagined project management, tailored to the unique needs of data science projects.

Project Goals

Because research is exploratory and open-ended, it's hard to track progress precisely. It's notoriously difficult to estimate when a research question will be answered, and unlike software development, data science doesn't have a simple notion of a bug or feature burndown.

Goals let you define milestones tailored to the unique nature of your project, e.g., answering a key question, achieving a performance goal with a model, or publishing an API. Domino lets you link reproducible artifacts to your goals to document their completion.

Configurable Stages

Process is critical for creating consistency and discipline — but one size doesn't fit all. Domino lets you define custom "stages" for projects to match your desired process.

Blockers

When data scientists get stuck — often for reasons outside of their control — it can cause cascading, compounding delays to research. With Domino you can surface issues immediately.
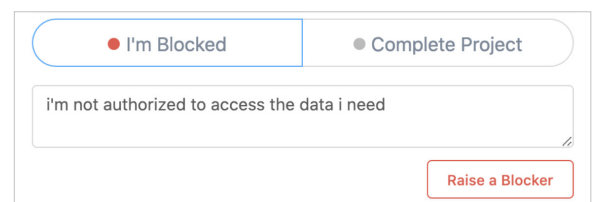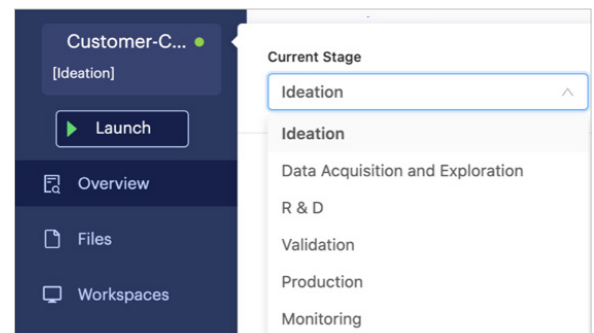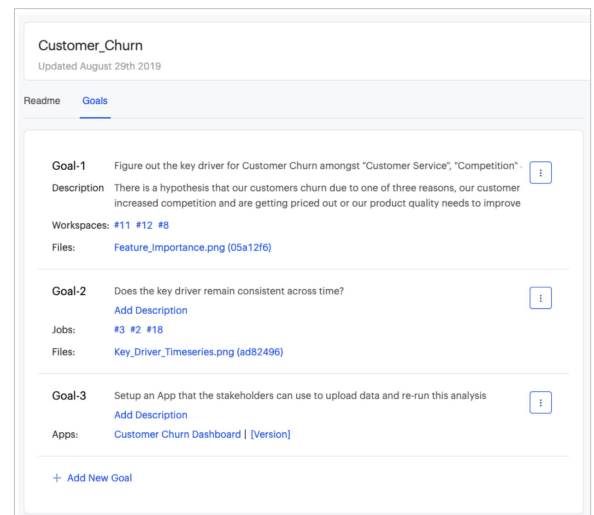
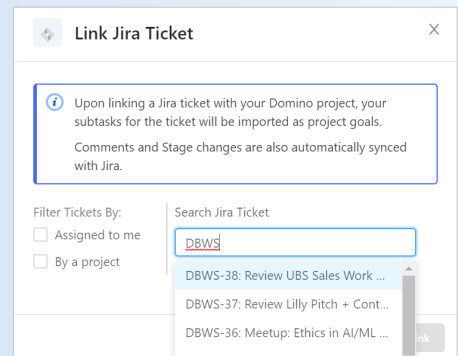## Visibility and Reporting for Stakeholders and Leaders

Using metadata about project progress — goals, blockers, and stages — Domino gives you unprecedented visibility into the health of research across your organization. Information is at your fingertips with two powerful dashboards: the Project Portfolio dashboard and the Assets Portfolio dashboard.

The **Project Portfolio Dashboard** provides visibility into all research projects, letting you filter or sort projects by stage, status, goal completion percentage, duration, owner, and more.

When you want to drill in to understand more details about the project, click on the row to get a detailed Activity Feed including goal completions, blockers, and all surrounding discussion.

Integrates with JIRA

You can link a Domino Project to a JIRA ticket so that your Project's Stage will synchronize with the JIRA Status, and any sub-tasks in JIRA will become Goals in your Project.

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The **Assets Portfolio Dashboard** lets you see all data science assets — e.g., model APIs, apps, scheduled jobs — that have been published across your organization so you can understand which are being used and updated most frequently.
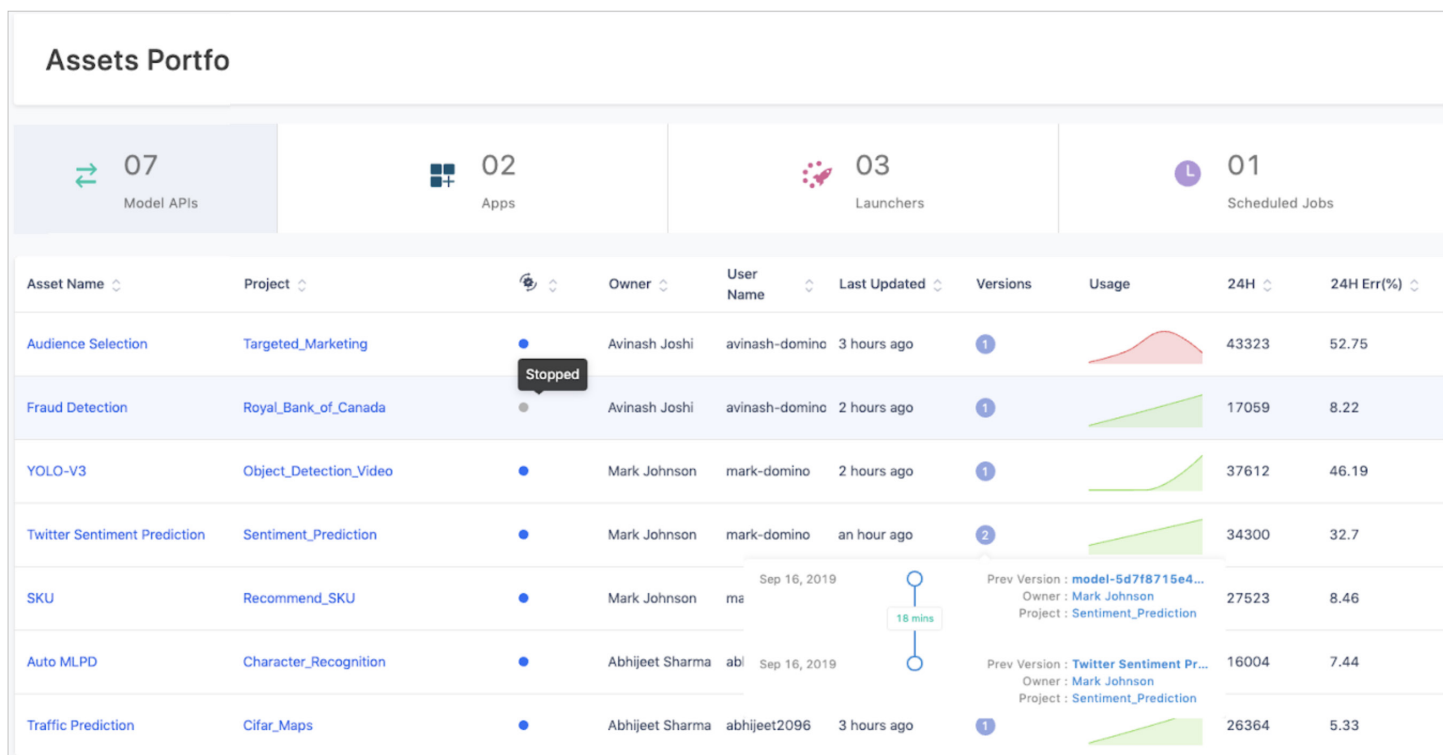
Best practices from leading research organizations

A large manufacturing company has created a data science process that codifies standards and best practices, leading to more streamlined projects and less wasted work.

For example, they have an initial "Conception" stage and they require lightweight business case and ROI justification before promoting a project from conception to execution.

Similarly, before a project can graduate from conception into execution, it must have goals articulated and codified in Domino, and a business stakeholder identified.

This type of discipline leads to more focused work and greater team alignment.

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