

RPA & AI

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Index



AI Fabric

ML Model

ML Skills

ML Logs

Activity Package

Development

Use Cases

Reference

AI Fabric is a service that allows you to deploy and manage Machine Learning models and consume them within RPA workflows in Studio.

AI Fabric is only available for Cloud Platform tenants and is licensed as a separate service.

To gain access to AI Fabric, acquire AI Robot licenses to your tenant within your Cloud Platform account.

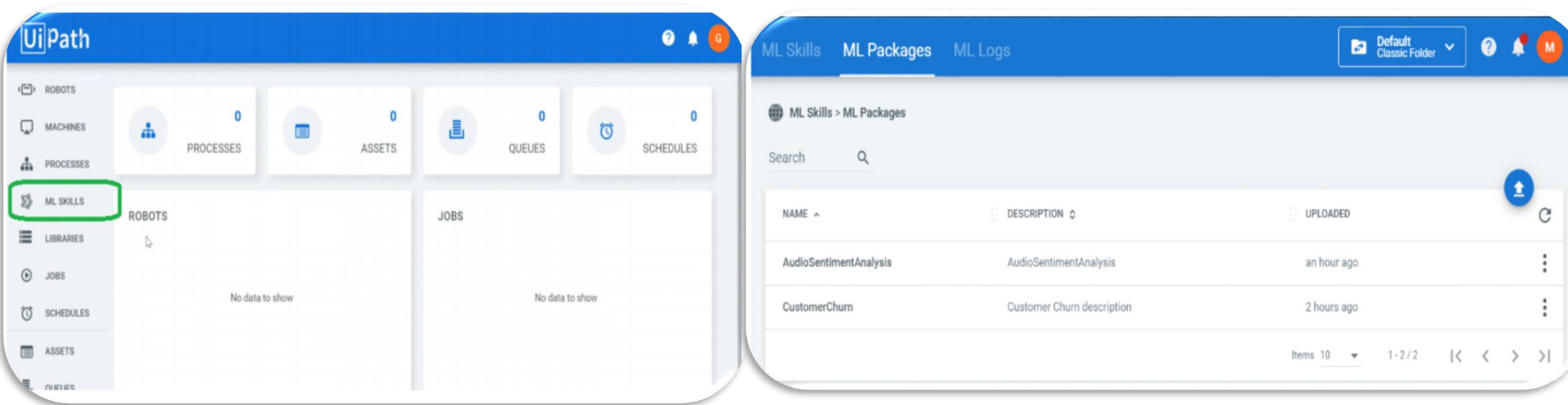
The screenshot shows the 'Licenses' page in the UiPath Cloud Platform. The left sidebar contains navigation links: Home, Services, Users, Licenses (highlighted), Audit Logs, and Resource Center. The main content area is titled 'Licenses' and shows a 'Subscription Expiry: May 6, 2020' with an 'ENTERPRISE TRIAL' badge. Below this, there are tabs for 'Robots', 'Studios', and 'Other Services'. The 'Robots' tab is active, displaying a table of robot licenses. The 'Studios' tab is also visible, showing studio licenses. The 'Other Services' tab is highlighted, showing AI Robots and GPUs. The bottom of the page shows the version 'Version 20.3.3-release.55'.

License Category	Count
Attended Robots	5
Unattended - Runtime	5
NonProduction - Runtime	5
Studio - Named User	5
StudioX - Named User	5
AI Robots	0
GPUs	0
Computer Vision	240
Document Understanding	

The ML models can be built in a Python IDE or using an AutoML platform such as H2O Driverless AI.

Data Scientists are in charge of building and uploading the ML models to AI Fabric. They build and then upload ML packages to Orchestrator. They can perform this operation from the ML Packages page in Orchestrator.

The ML pertaining options are displayed in Orchestrator if your tenant has the necessary licenses and you have the corresponding permissions.



An ML skill is a deployed, consumer-ready ML or OS package. Once deployed as ML skills, both ML Packages and OS Packages become models ready to be consumed within RPA workflows.

When you are deploying an ML or OS package into an ML Skill, the model .zip file corresponding to the package is extracted and containerized on AI Fabric's Kubernetes cluster, on the AI Fabric server.

The ML Skills page displays all the models deployed on your Orchestrator tenant, whether they use ML or OS packages.

ML SkillsML PackagesML Logs

Default Classic Folder

MA

ML Skills

Search

NAME	SOURCE	STATUS	GPU	VERSION	PREDICTI...	DESCRIPTION
E2D	OS Packages	Available	×	1	0	
E2R	OS Packages	Available	×	1	0	
QA	OS Packages	Available	×	1	0	
E2F	OS Packages	Available	×	1	0	

The ML Logs page is a consolidated view of all ML-related events.

ML SkillsML PackagesML Logs

ProcFolder_1Classic Folder

ML Skills > ML Logs

SearchSeverity: InfoComponent: AllTime: Last weekReset to defaults

SEVERITY	COMPONENT	NOTIFICATION	TIME	
Info	ML Skill	MLSkill ConsumerComplaintsClassification MLPackage v#1 Undeployed Successfully	21 hours ago	
Info	ML Skill	MLSkill Sentiment Analyzer MLPackage v#2 Undeployed Successfully	3 days ago	
Info	ML Skill	MLSkill Sentiment Analyzer MLPackage v#1 Is Available	3 days ago	
Info	ML Skill	MLSkill Sentiment Analyzer MLPackage v#1 Updated Successfully	3 days ago	
Info	ML Skill	MLSkill Sentiment Analyzer MLPackage v#1 Deployment Started	3 days ago	
Info	ML Skill	MLSkill Sentiment Analyzer MLPackage v#1 Is Available	4 days ago	
Info	ML Skill	MLSkill Sentiment Analyzer MLPackage v#1 Deployment Started	4 days ago	
Info	ML Package	MLPackage #SentAnalysis v#3 validation successful	4 days ago	
Info	ML Package	MLPackage #SentAnalysis v#3 validation started	4 days ago	
Info	ML Package	MLPackage #SentAnalysis v#2 validation successful	4 days ago	

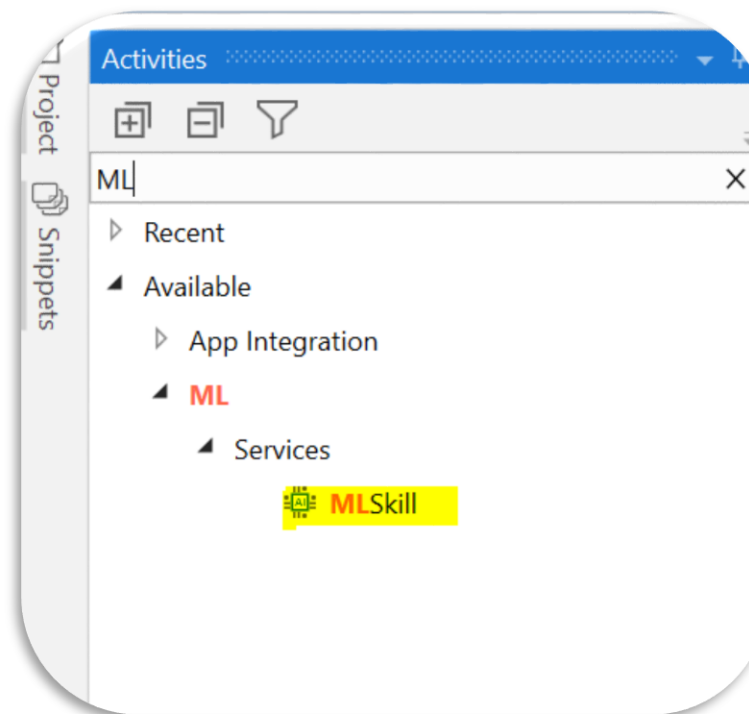
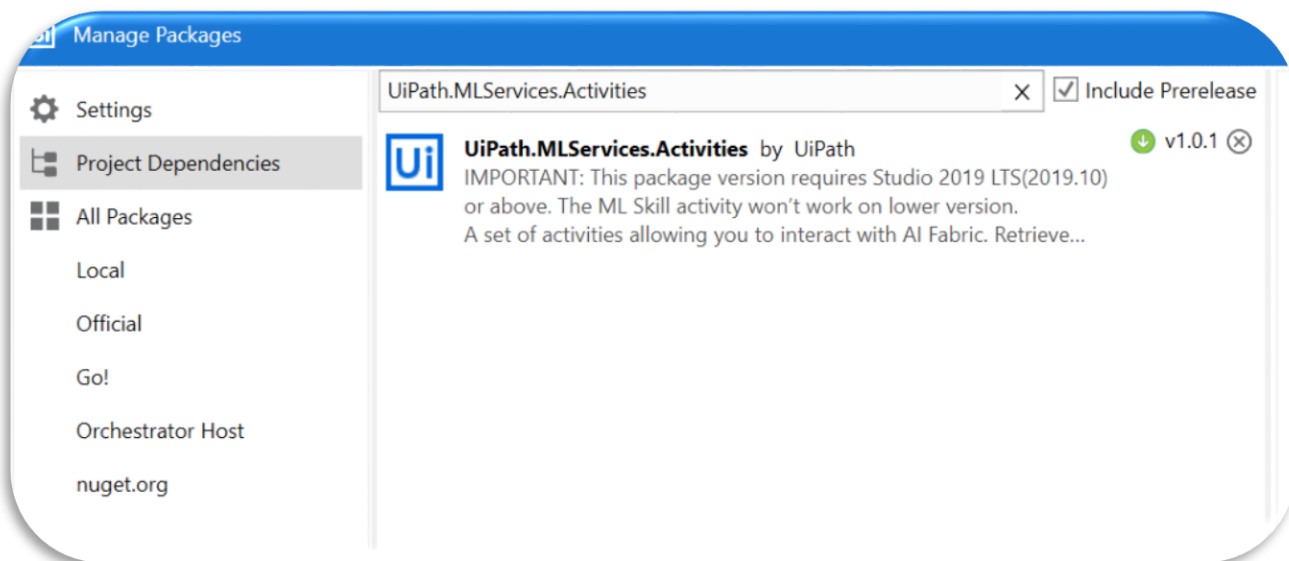
Items 101 - 10 / 17

Activity Package

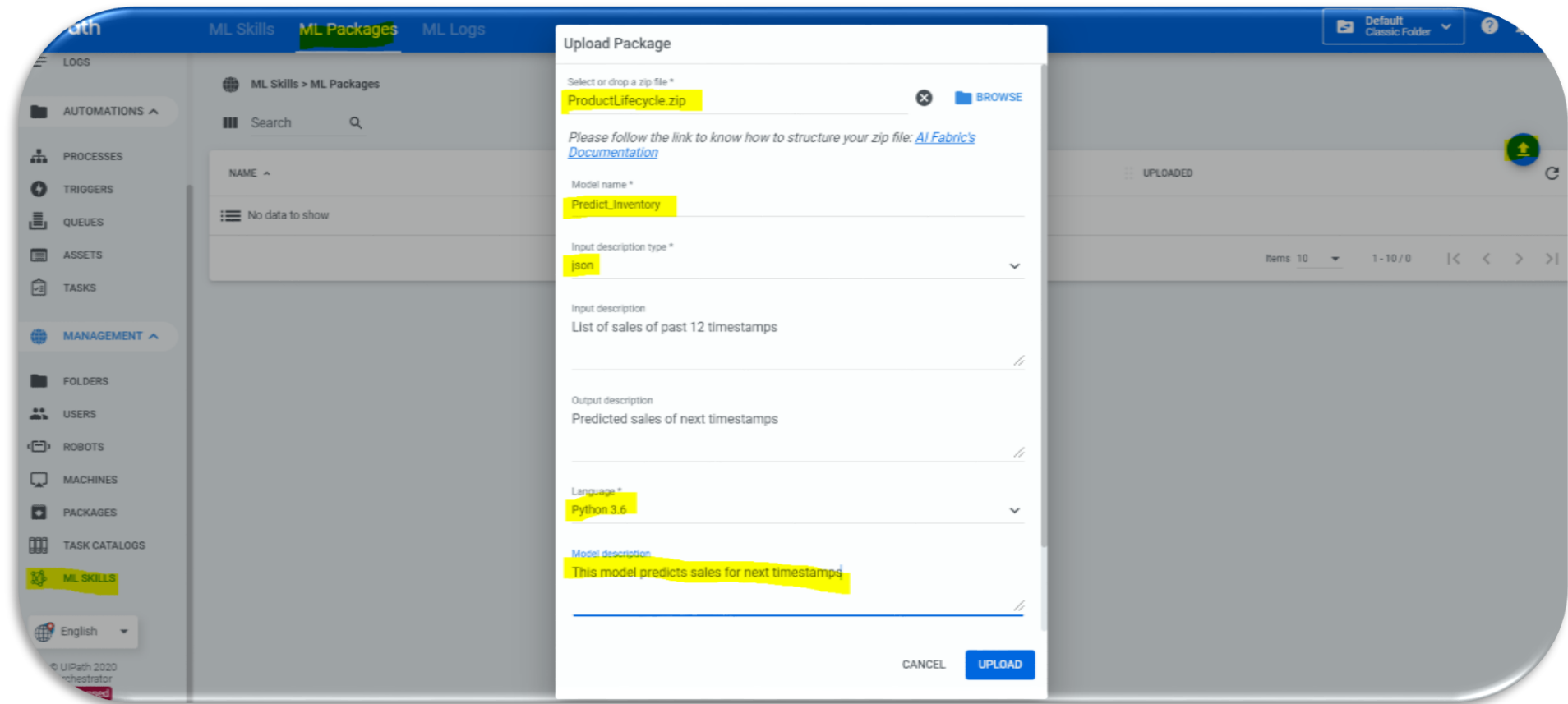
RPA Developers consume the ML skills available on their Robot.

RPA Developers consume deployed ML skills within customized workflows in Studio using the ML Skill activity from the **UiPath.MLServices.Activities** package.

This activity package is only available for Studio v2019.10+ and can only be used by Robots v2019.10+.



1. Upload ML package



1. Create ML Skills

Create ML Skill

ML Package Name *
Predict_Inventory

Model Version *
1

ML Skill Name *
skill_predict_inventory

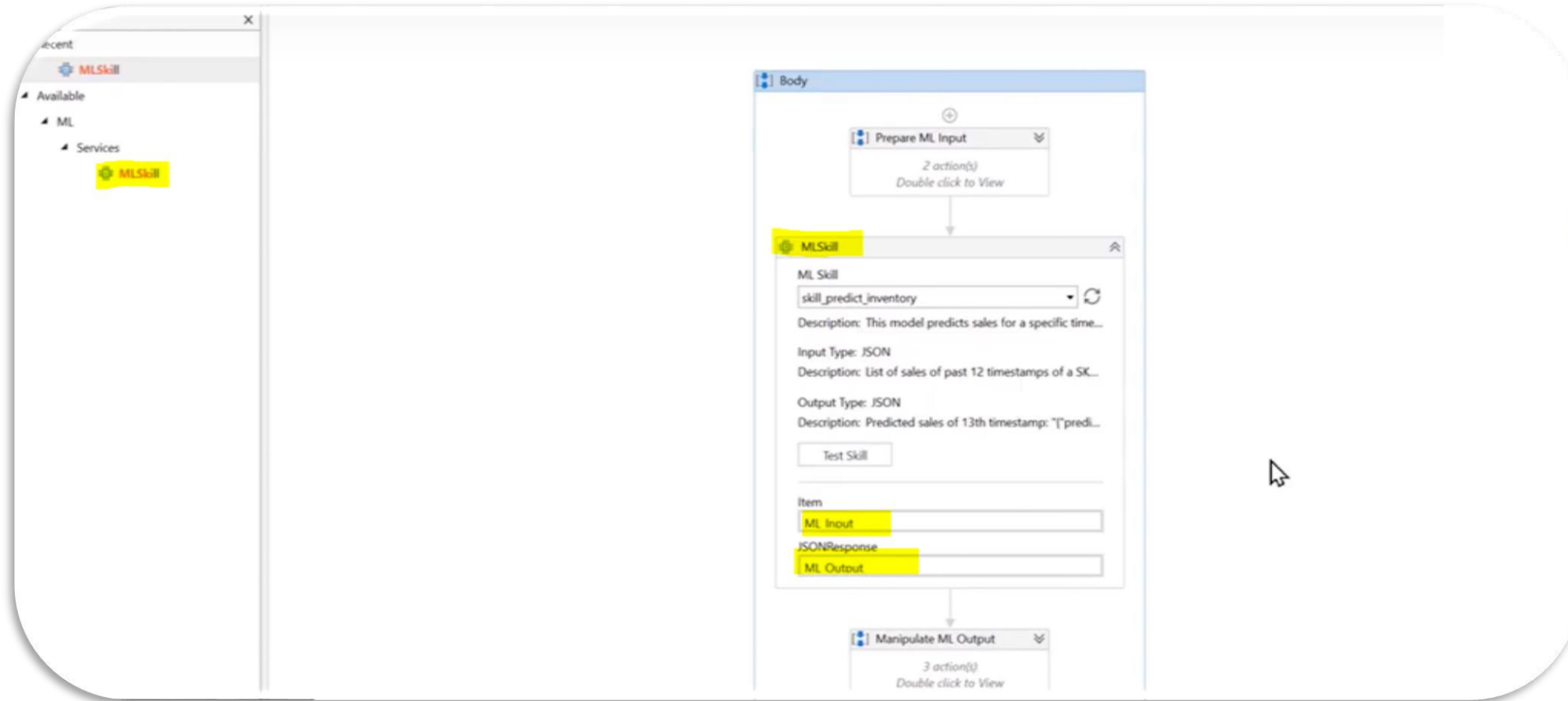
Type
CPU

Description
This model predicts sales for a specific timestamp

CANCEL CREATE

NAME	STATUS	DESCRIPTION
dc_skill	Available	
ims_forecast	Available	
ims_skill	Available	ML Skill for prediction

1. Access model using activity



1. Email Classification

- AI Fabric augments an unassisted robot to quickly classify bulk emails using the ML Skill, easily sorting out those which need human intervention.
- A use case that can be replicated for any text classification, in virtually any industry.
- <https://youtu.be/QwZAVDsU9hs>

2. Inventory Management

- Increasing inventory to meet sales prediction is a cinch when using AI Fabric.
- A use case to see how the ML model hosted in AI Fabric collects necessary inventory data and further predicts sales on a given timeframe.
- <https://youtu.be/Hy0eB2bbqwY>

3. Predicting Loan Defaults

- A use case to see how a UiPath Robot interacts with an ML model hosted in AI Fabric to predict if a customer will default on a loan.
- AI Fabric continues to expand the automation space as UiPath Robots are able to automate more cognitive processes.
- <https://youtu.be/vETSxydDwh0>

- <https://docs.uipath.com/orchestrator/v2020.4/docs/about-ai-fabric>
- <https://docs.uipath.com/orchestrator/v2020.4/docs/about-ml-packages>
- <https://docs.uipath.com/orchestrator/v2020.4/docs/building-ml-packages>
- <https://docs.uipath.com/orchestrator/v2020.4/docs/about-ml-skills>
- <https://docs.uipath.com/orchestrator/v2020.4/docs/ml-logs>
- <https://docs.uipath.com/orchestrator/docs/about-os-packages>

AI Fabric use cases

- <https://www.uipath.com/product/platform/rpa-ai-integration-with-ai-fabric>
(Inventory Management & Email Classification)