RPA & AI

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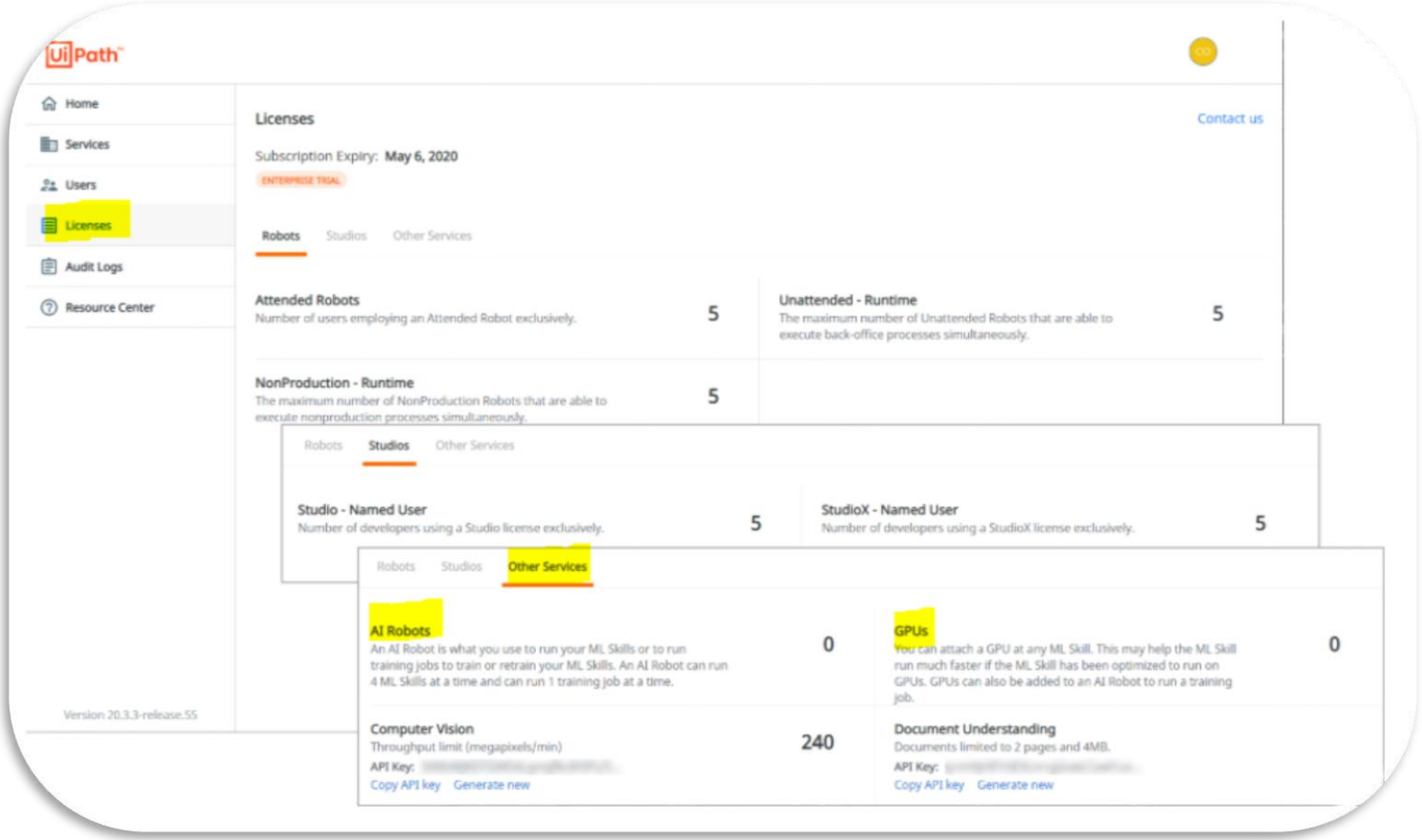
AI Fabric

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.

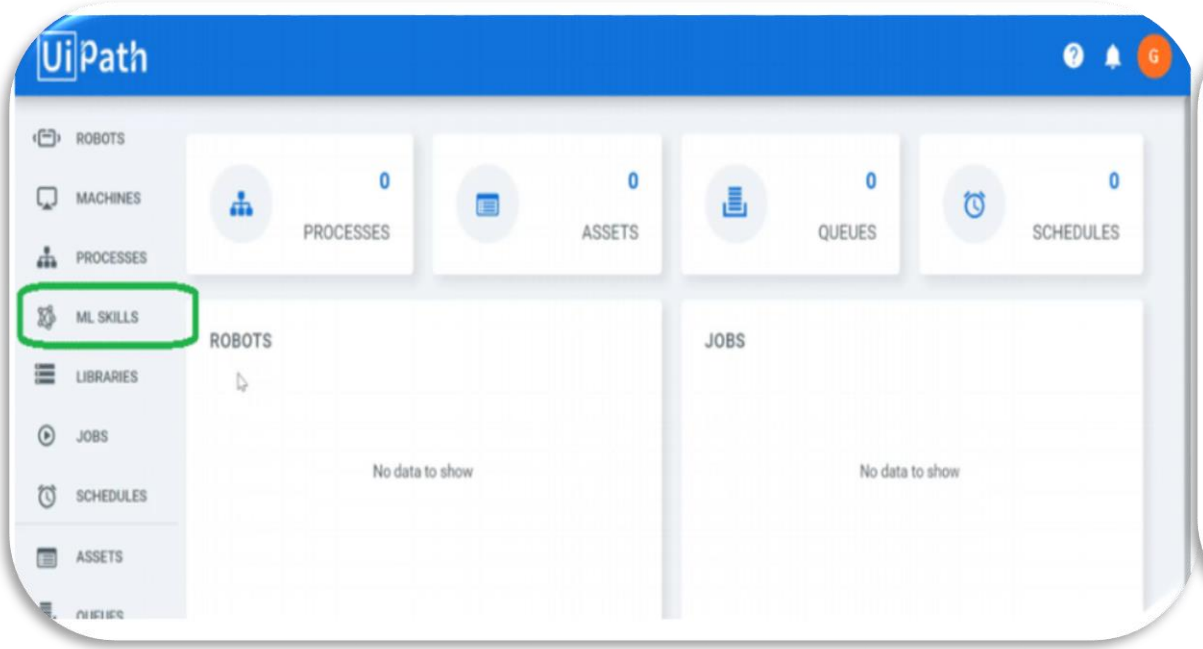


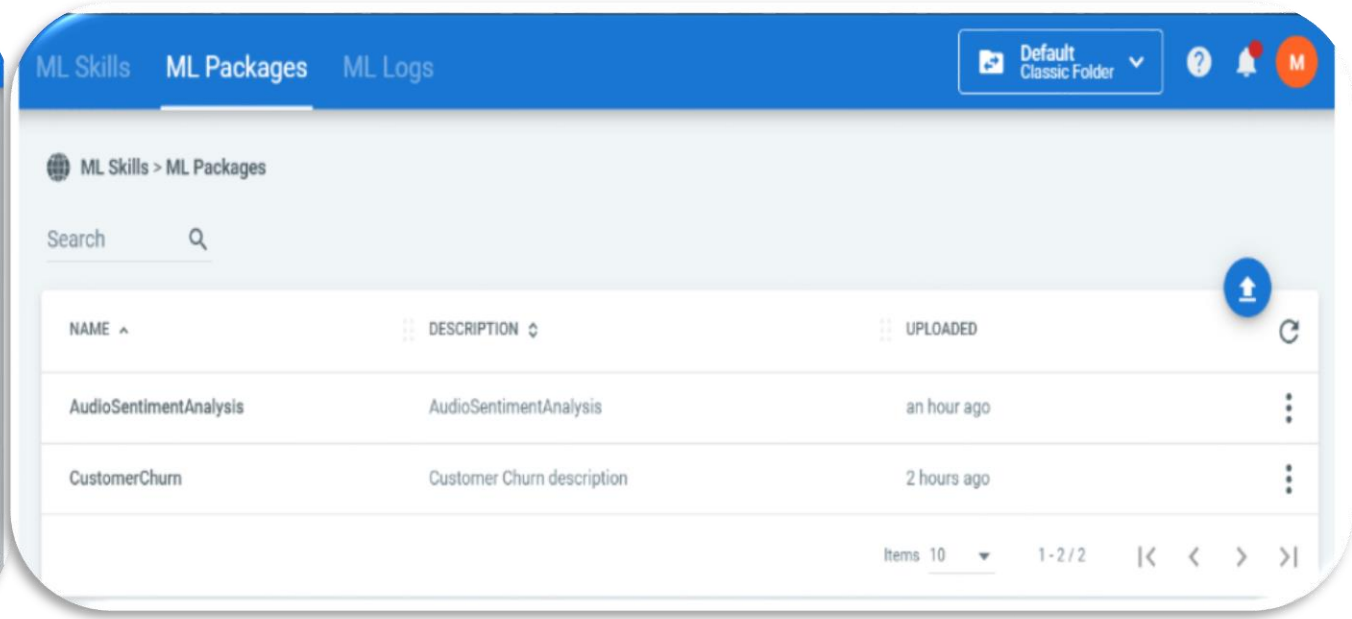
ML Model

The ML models can be built in a Python IDE or using an AutoML platform such as H20 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.



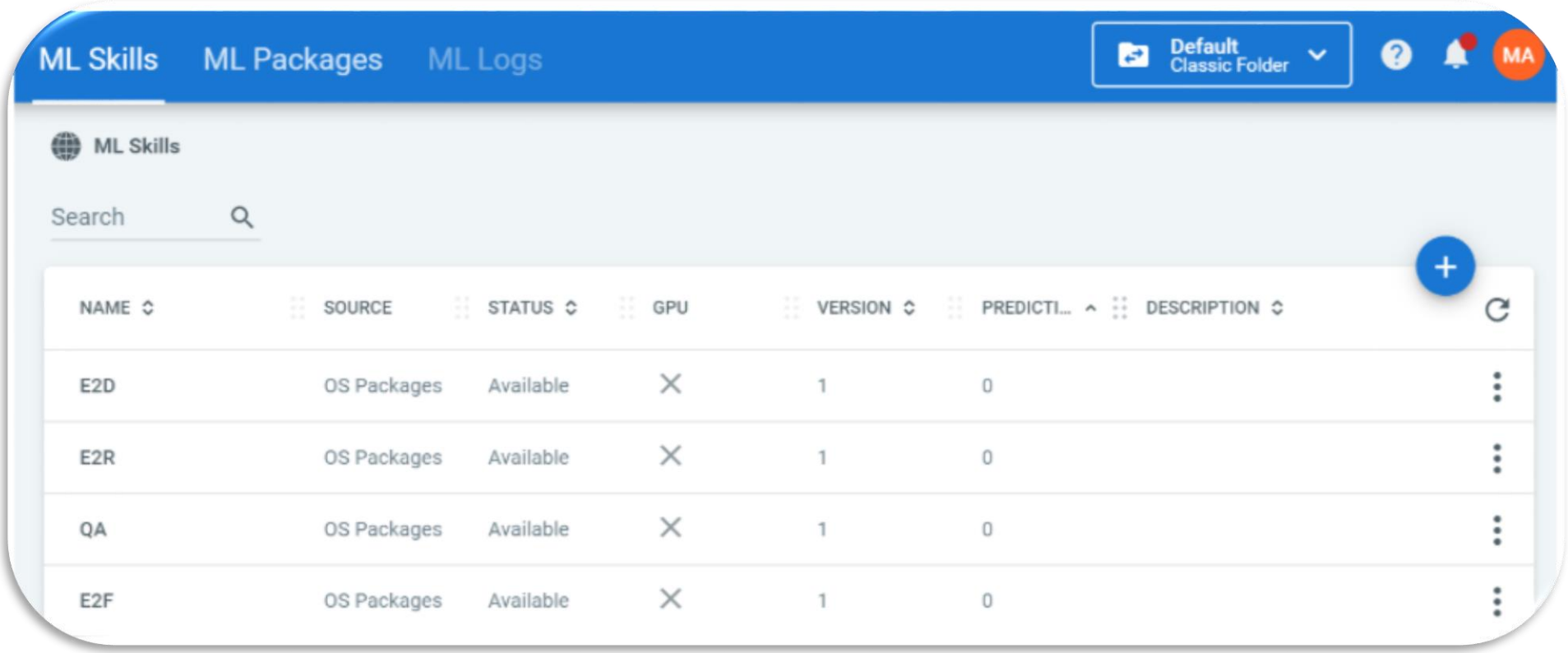


ML Skills

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.

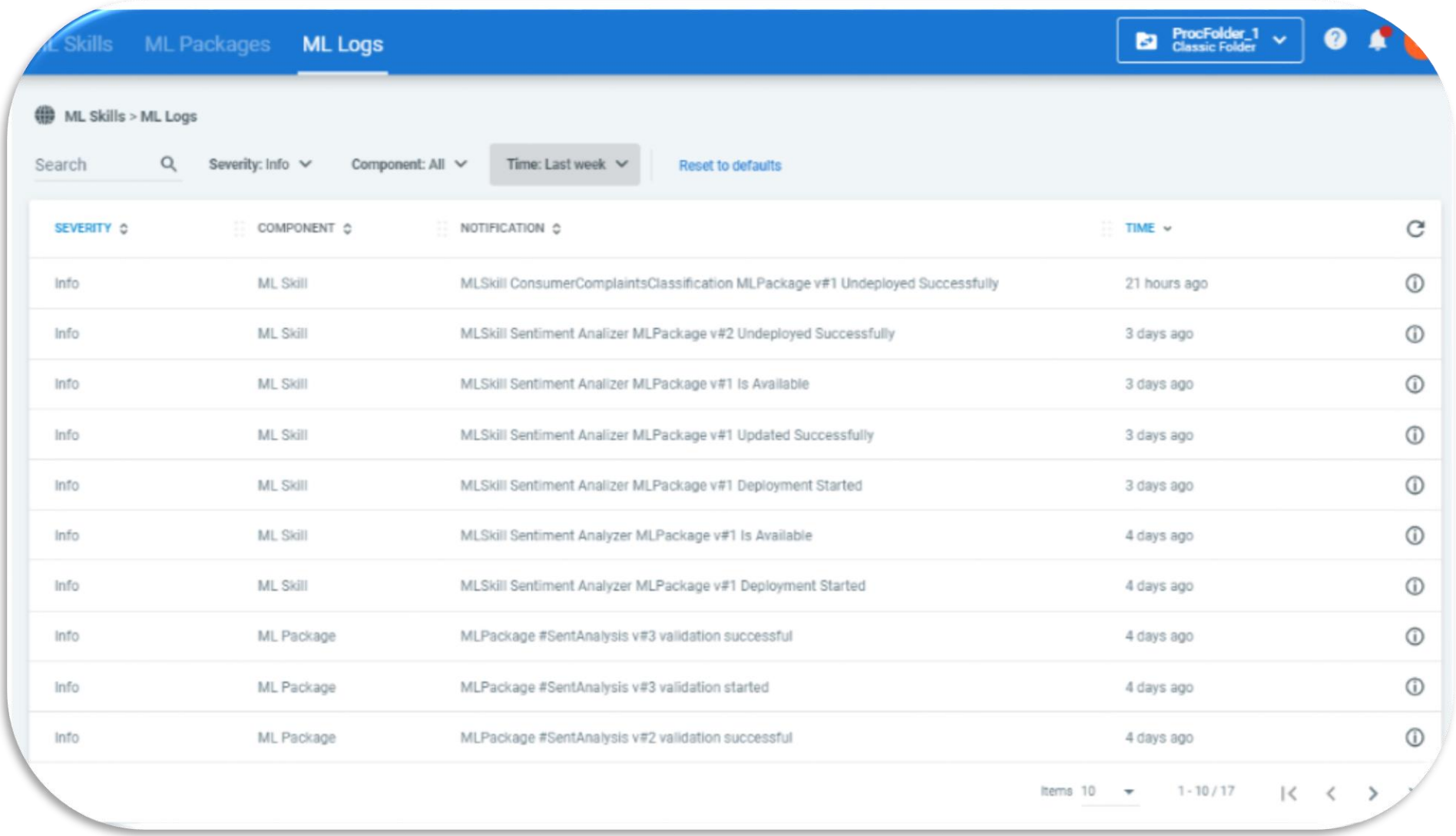
When you are deploying an ML or OS package into an ML Skill, the model .zip file corresponding to the package is extracted and containerized on AI Fabric's Kubernetes cluster, on the AI Fabric server.

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



ML Logs

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

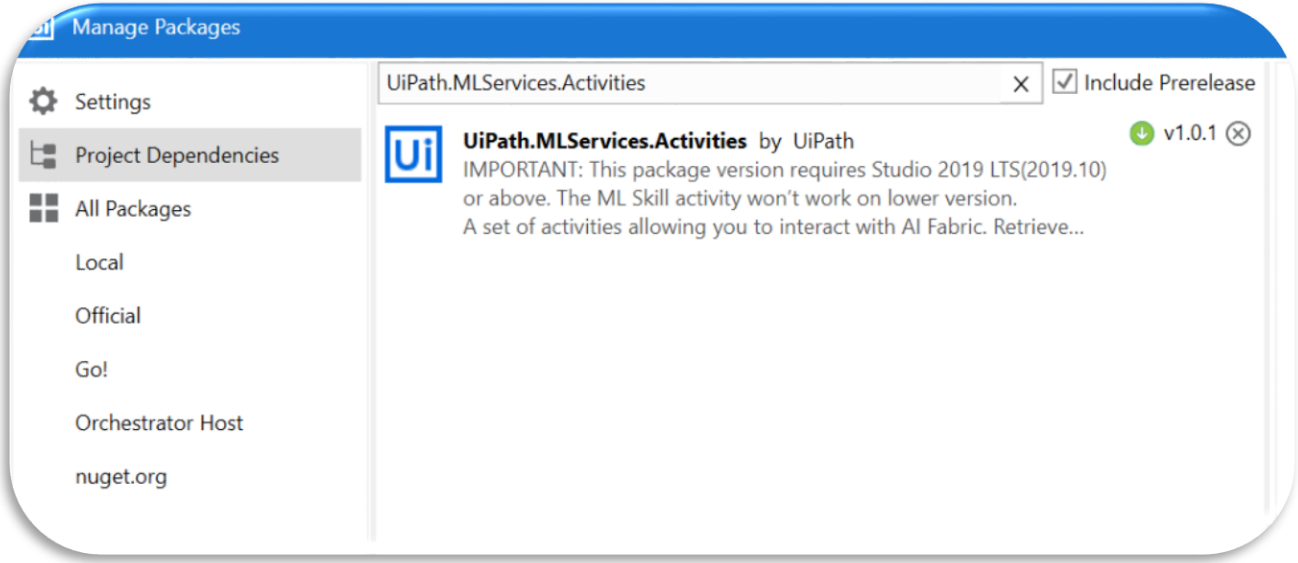


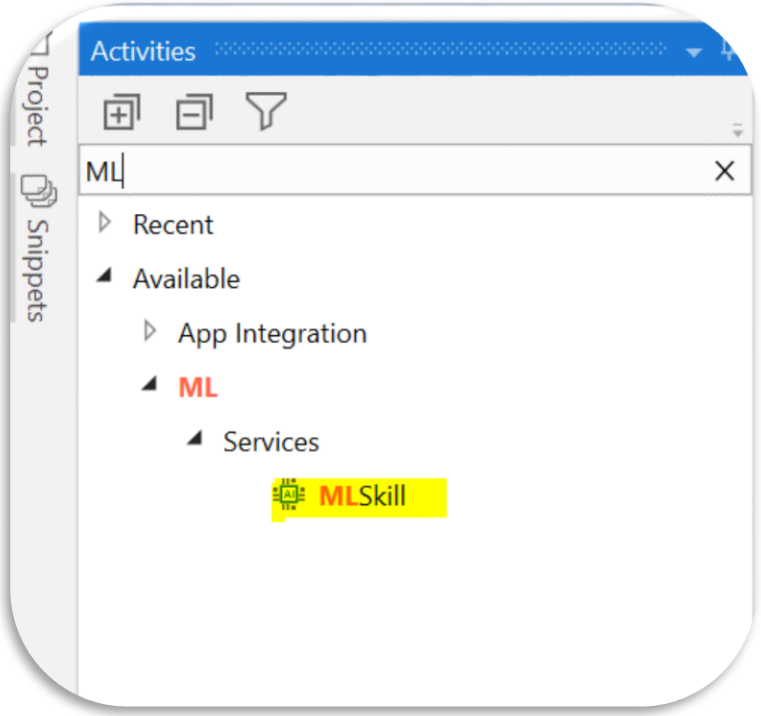
Activity Package

RPA Developers consume the ML skills available on their Robot.

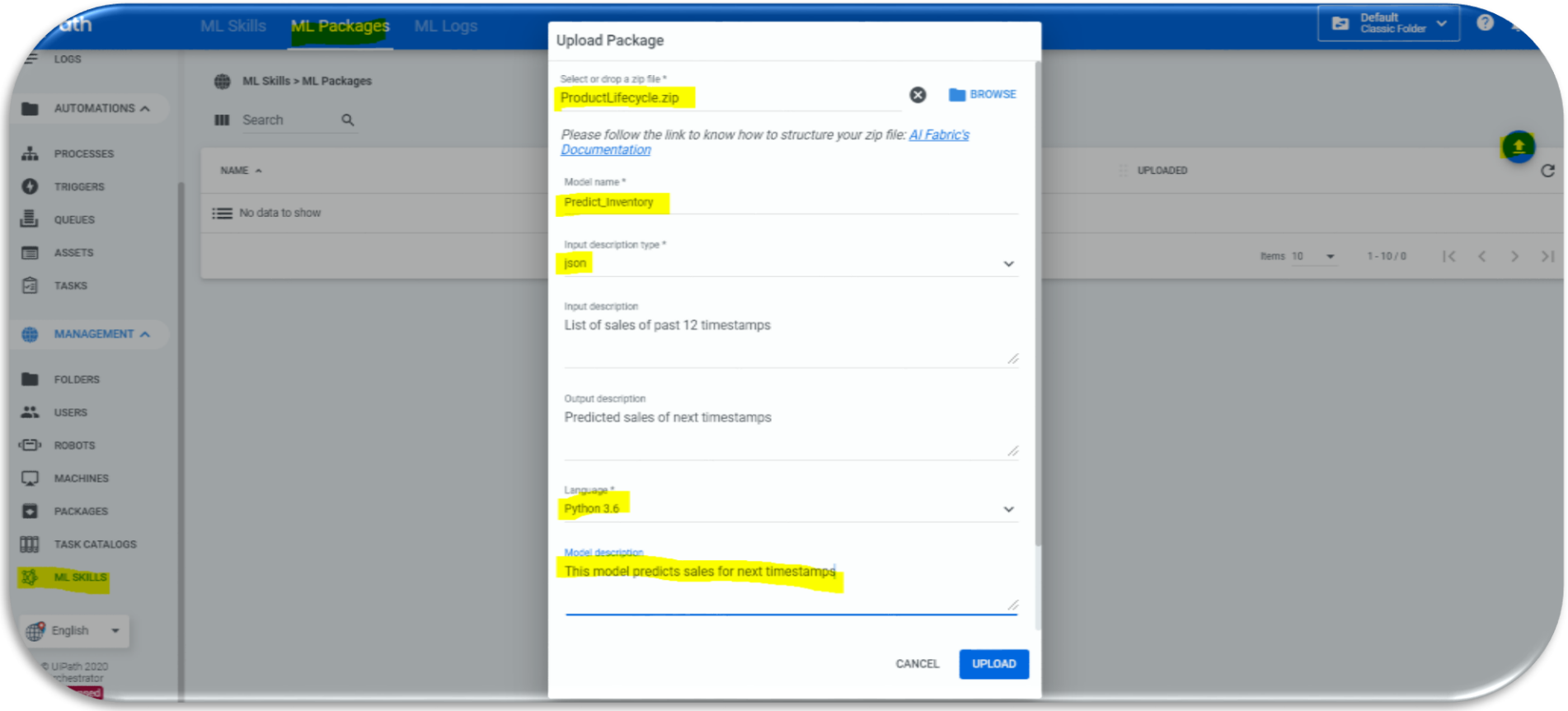
RPA Developers consume deployed ML skills within customized workflows in Studio using the ML Skill activity from the **UiPath.MLServices.Activities** package.

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

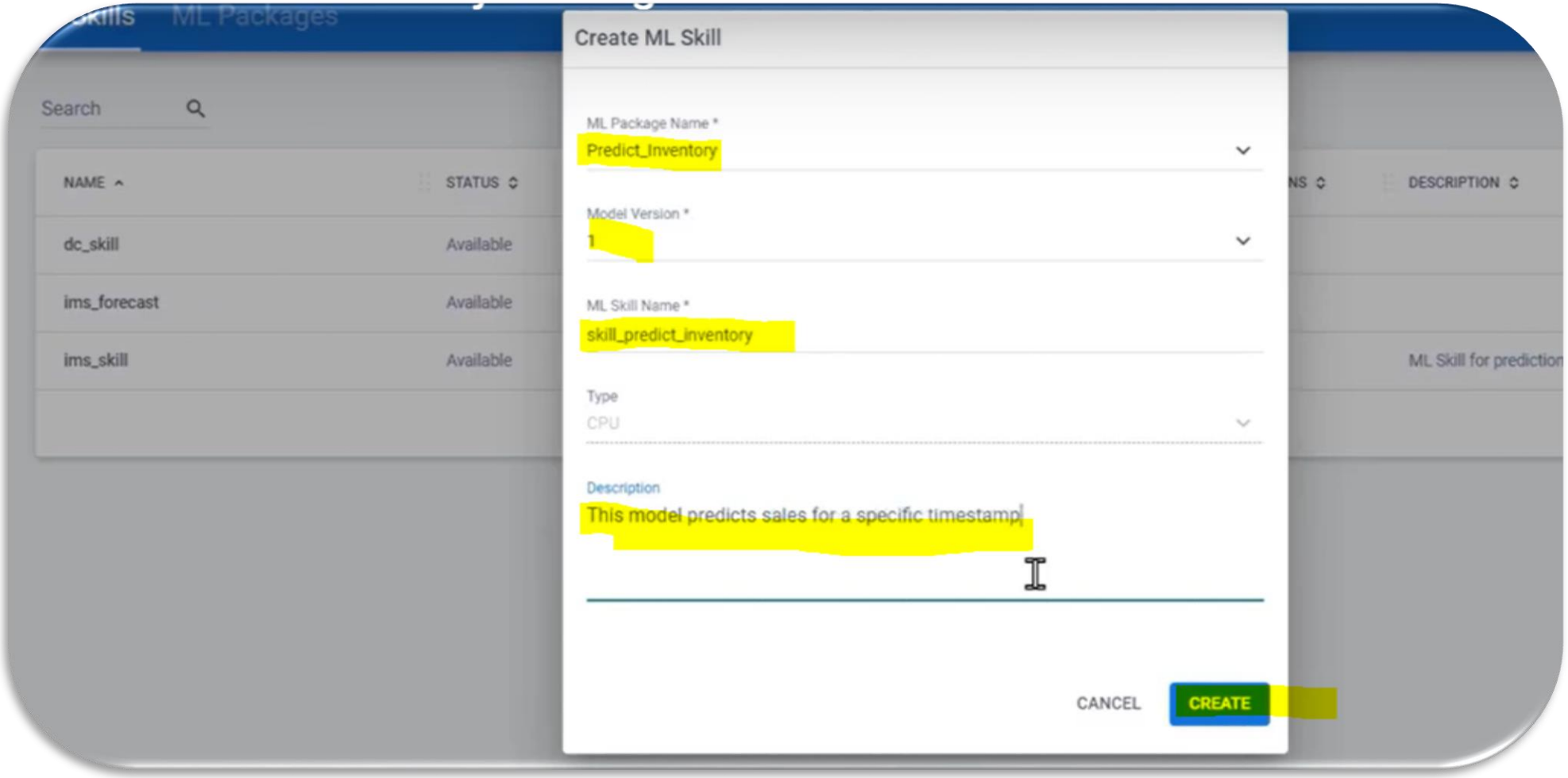




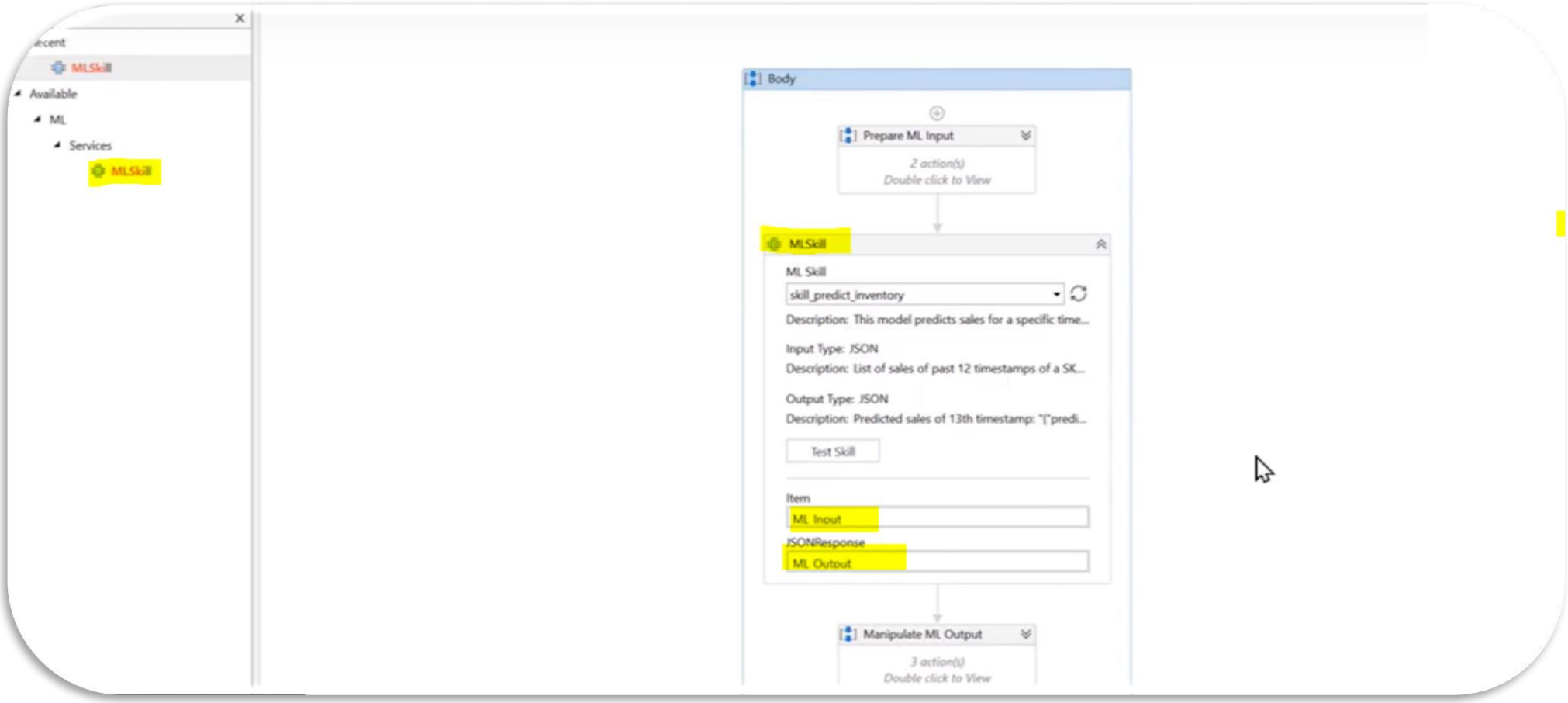
1. Upload ML package



1. Create ML Skills



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)

