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# Remediate a Model API

After reviewing the [data drift](#) and [model quality monitor](#), use the monitoring results and [Cohort Analysis](#) to determine whether there are concerns with your model. If you do have concerns, [review your data](#).

If you want to review the model and its associated code to investigate further, you can [reproduce the original code commits and artifacts](#) in the environment in which you deployed the model. If necessary, you can update the model code or retrain it with the latest production data. Then you can [deploy a new, improved version of the Model API](#).

## Review the Model API predictions [↗](#)

Domino automatically creates a prediction dataset named **prediction\_data** for every project that can be accessed from any workspace. The predictions are in Parquet format and are updated hourly as the Model API processes inputs. If there is no data in an hour, no file is created. If you configured [data drift monitoring](#) or [Set up Model Quality Monitoring](#) then the stored prediction data is automatically consumed by the Model Monitor.

By default, a daily job deletes data older than 30 days. Your administrator defines the retention policy for predictions. See the [model monitoring configuration options](#).

### Review your data: [↗](#)

1. In your workspace, open the IDE.
2. Use the following paths to read the data:
  - To load individual Parquet files:

**To load individual Parquet files  
for DFS-based projects**

To load individual Parquet files  
for GIT-based projects

To load the entire Parquet dataset  
for DFS-based projects

To load the entire Parquet  
dataset for Git-based projects

```
/domino/datasets/local/prediction_data/<model_version_id>/$$date$$=<date_in_utc>/$$hour$$=<hour_in_utc>/prediction
```

#### Caution

Do not rename the generated Parquet files and directories. Doing so can cause inconsistent behavior.

## Reproduce the environment [↗](#)

### Prerequisites [↗](#)

For Git-based projects

- This feature is only enabled for models published in Domino 5.0 and higher.

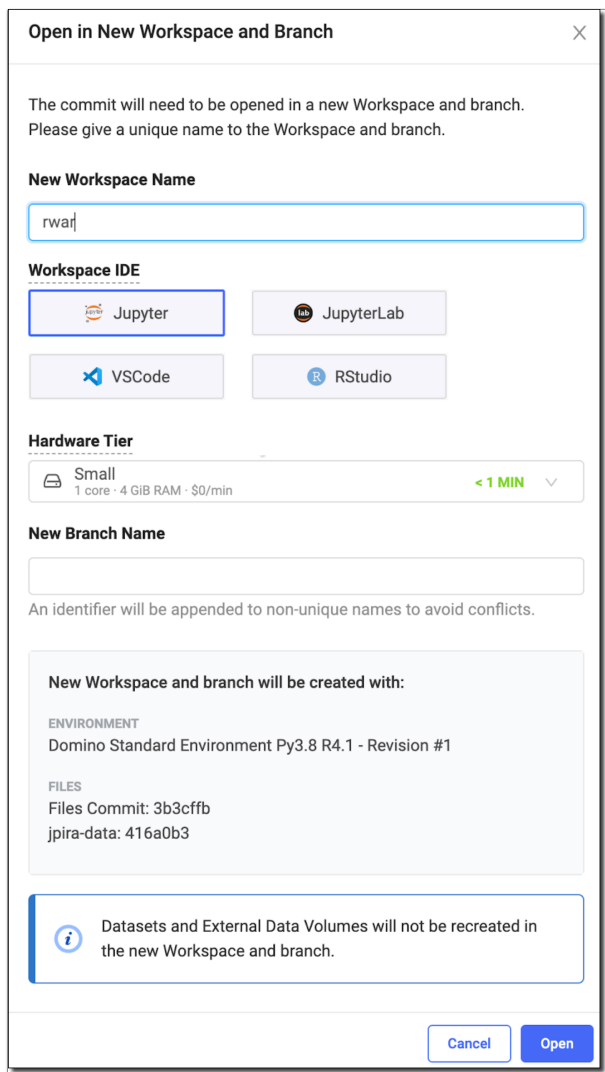
- This feature is available for pre-5.0 published models as well as newly-published models, as long as no additional Git repositories are involved.

## Remediate the model [↗](#)

1. From the navigation pane, click **Model APIs**.
2. Click the model that you want to remediate and then click **Open in Workspace**.
3. From the Open in New Workspace and Branch window, type a name for the workspace.
4. Select a **Hardware Tier**.
5. In New Branch Name, type a name for the code branch.
6. Click **Open**. A Domino workspace opens and is ready for you to take remedial action.

### Note

If you manage file changes and code commits outside of Domino (such as in an external Git client) and only use Domino to publish the Model API, the window will show a list of tools. Select from these tools to create a new workspace.



**Open in New Workspace and Branch** ✕

The commit will need to be opened in a new Workspace and branch.  
Please give a unique name to the Workspace and branch.

**New Workspace Name**

rwar

**Workspace IDE**

Jupyter JupyterLab VSCode RStudio

**Hardware Tier**

Small 1 core - 4 GiB RAM - \$0/min < 1 MIN

**New Branch Name**

An identifier will be appended to non-unique names to avoid conflicts.

**New Workspace and branch will be created with:**

ENVIRONMENT  
Domino Standard Environment Py3.8 R4.1 - Revision #1

FILES  
Files Commit: 3b3cffb  
jpira-data: 416a0b3

**Datasets and External Data Volumes will not be recreated in the new Workspace and branch.**

Cancel Open

## Publish a new Model API [↗](#)

When you reproduce a workspace, as you did in the [Reproduce the environment](#) topic, Domino creates a branch in every repository involved in the project.

To publish a new model based on this reproduced branch, you must apply the [commit to the master branch](#) because Domino supports Git-based projects. The way that you do this depends on whether you are working with a Domino File System-based project or a Git-based project.

Commit projects based on the Domino File System (DFS):

1. Go to the Project.
2. Click **Code** in the navigation bar.
3. From the **Branch** list, select the reproduced branch.
4. Click **Revert Project** to ensure that the commits made in this branch are added in the Master branch.

#### Note

**Revert Project** only works for the DFS files. For imported Git repositories or projects, you must revert the artifacts independently.

Commit Git-based projects:

- In a Domino workspace or the Git tool of your choice, merge your latest code update into the master branch.

#### Note

Perform the same merge operation for any artifacts (such as .pkl files) that you maintain in a separate repository. You can use Domino for the artifacts.

1. In your Git-based project, in the navigation pane, click **Artifacts**.
2. Click **Revert Project** to restore the artifacts from your reproduced branch to the master branch.

Go to the **Model API** section of your project to publish a new Model API or a new version of an existing Model API. See [Publish the model API](#).