

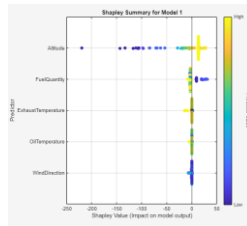
## What's New in MATLAB® R2024b for AI?

### Apps

#### Machine Learning apps

##### Plot Shapley values

After you train a model in the Classification Learner or Regression Learner app, select the model in the **Models** pane. Then, on the **Explain** tab, click **Shapley Importance**, **Shapley Summary**, or **Shapley Dependence** to create the corresponding plot.



##### Create Compare Results plot

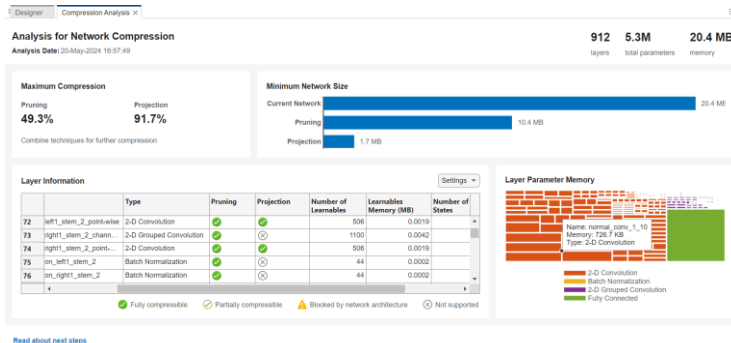
Using the Customize Styles dialog box.

You can apply your customized style to all new live scripts.

#### Deep Learning apps

##### Deep Network Designer: Analyze networks for compression

You can now use the [Deep Network Designer](#) app to analyze the compressibility of neural networks. For example, you can now check the maximum possible memory reduction of your network that Taylor pruning or projection compression can provide.



### Generative AI

#### LLMs with MATLAB (GitHub)

##### Connect to local large language models using Ollama

You can now generate text from local large language models in MATLAB®.

Connect to a local Ollama™ server and generate text using the [ollamaChat](#) function.

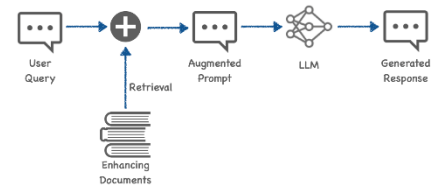


##### Connect to Azure OpenAI Service

You can now generate text from deployed LLMs hosted on Azure® OpenAI® Service using the [azureChat](#) function.

##### New example

##### Retrieval Augmented Generation Using ChatGPT and MATLAB.

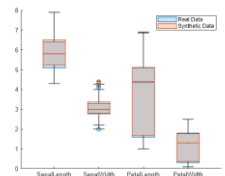


### Model Building and Assessment

#### Data Generation

##### Generate synthetic data from existing tabular data

Use the [synthesizeTabularData](#) function to generate N observations of synthetic data using the existing data.

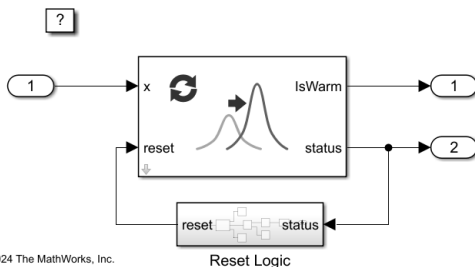


### Deployment

#### Incremental Drift Detection

##### Detect drift during incremental learning in Simulink

You can now integrate the [detectdrift](#) function for incremental learning into Simulink® using the new [Detect Drift](#) block.



Copyright 2024 The MathWorks, Inc.

Reset Logic

#### Simulink

##### New Deep Learning Layers block library and exportNetworkToSimulink function

Simulate, debug, and generate code for deep learning networks in Simulink® by using the new [Deep Learning Layers block](#) library. To generate a model that uses these blocks, use the new [exportNetworkToSimulink](#) function

