

What's New in MATLAB R2022a for Data Science?

MATLAB

Data Preparation

Create Your Own Live Task

You can now create your own Live Editor task

Data Cleaner App

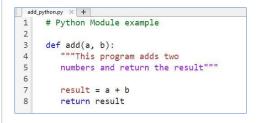
Add additional visualizations



Python

Editor Python Support

View and edit Python files with syntax highlighting, auto-indenting & delimiter matching



Deployment

MATLAB Production Server

Docker microservice

Create a microservice Docker image from a production server archive



MATLAB Parallel Server

MATLAB Job Scheduler for Auto-Resizing

You can customize your MATLAB® Job Scheduler (MJS) cluster to resize automatically

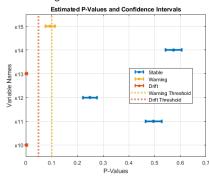


Machine Learning

Modelling

Drift Detection

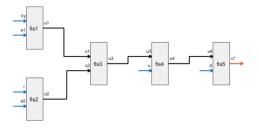
Detect drifts between baseline and target data using permutation testing



Explainability

Explain Black-Box Model Using Fuzzy Logic

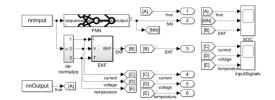
Develop a fuzzy inference support system that explains the behavior of a black-box model



Simulink

Predict Battery State-of-Charge in Simulink

Use a feedforward deep learning network inside a Simulink® model to predict the state of charge (SOC) of a battery



Deep Learning

Main Documentation Page Deep Learning in MATLAB

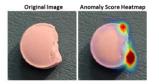
Modelling

Multi-Input Networks

Train networks with mixtures of image, sequence, or feature inputs

Detect Image Anomalies Using Explainable One-Class

Train an anomaly detector for visual inspection of pill images



Interoperability

TensorFlow Lite

Load TensorFlow Lite model



Code Generation

Pruning

Network that can be pruned by using first-order Taylor approximation

Other

Finance

Deep Learning Example

Backtest Strategies Using Deep Learning

Optimization

<u>Problem-Based Optimize Live</u> <u>Editor Task</u>



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