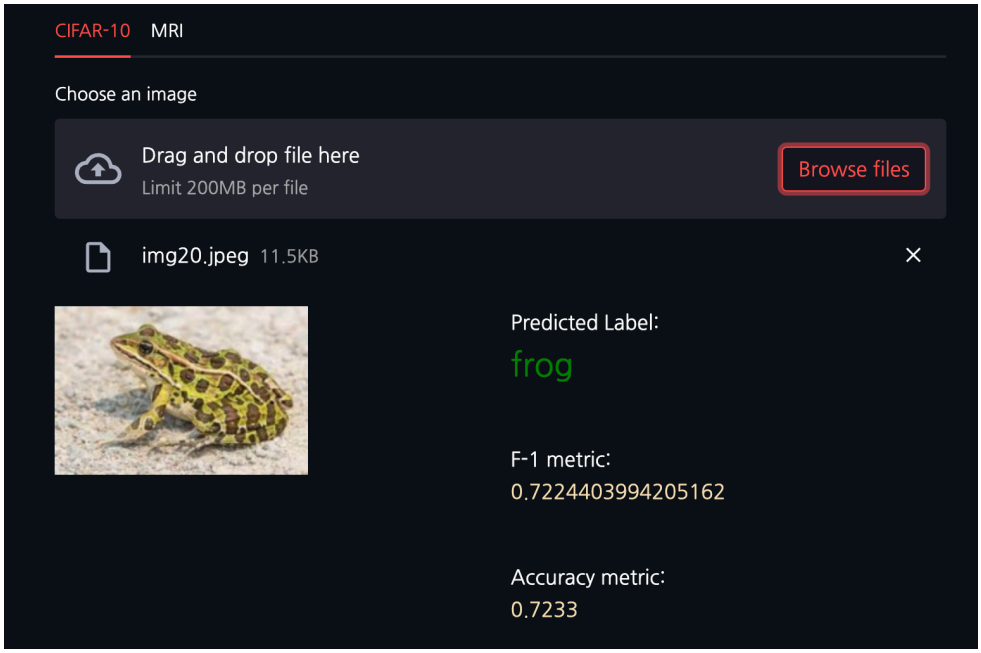
VMware Tanzu

Sample ML App frontend with Multi-step MLflow workflows

Overview

Use this sample template as a baseline to bootstrap an ML application whose embedded model is trained, evaluated and promoted using multi-step **MLflow** workflows**.** The sample template demonstrates using **Tensorflow** to train an object classification model on the CIFAR-10 dataset. The application is a **Streamlit** web app which also exposes a **FastAPI** based ML API. Workflow steps may be configured for each run with MLflow's **MLproject** file.



Workflow Steps

The workflow steps are as follows:

upload_dataset	Uploads the training dataset to the training environment *(supports local environment or Ray clusters by default)*
train_model	Builds and trains the candidate model
evaluate_model	Uses defined metrics and thresholds to perform model evaluation on the candidate model *(supports Evidently by default)*
promote_model_to_staging	By default, promotes the candidate model to Staging if it passes the evaluation stage