Flask APP

Azure Kubernetes Services

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Docker Image

Azure Container Registry

Azure Pipeline

Data Scientist

Model training

GitHub Repo

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The following steps describe the execution of above pipeline.

1. Train the ML model and save it to the GitHub or Blob Storage
2. Create a Flask APP using the saved ML model
3. Commit the code to GitHub repo

CI Pipeline:

1. Configured Azure Pipeline fetches the latest code from GitHub
2. The pipeline initiates a docker build process and creates a docker image
3. The docker image is pushed to the Azure Container Registry by the pipeline

CD Pipeline:

1. Azure Pipeline fetches the docker image from Azure Container Registry
2. The docker image is then deployed to Azure Kubernetes Services and hosted as pod in the cluster