**DSBA 6190 | Distributed Computing Lab**

**Description:** The goal of the “containerization” portion of this lab is to learn how to build a Docker image that can train a machine learning model from data housed in your data lake and to execute this model training from a Kubernetes cluster. Then, the Databricks portion of this lab will walk you through a similar machine learning exercise

**Notes:**

* Only provision the requested resources using the defined settings. Remember, the class cloud budget is everyone’s responsibility.

## Steps:

1. Build Your Docker Image. (EACH GROUP MEMBER)
2. Push to the Azure Container Registry. (EACH GROUP MEMBER)
3. Run Your Container in Kubernetes and Train a Model. (EACH GROUP MEMBER)
4. Complete a Similar Distributed ML Training on Databricks with Apache Spark. (EACH GROUP MEMBER)

# Part 1: Containerization with Docker and Kubernetes

Step 1: Build Your Docker Image

Step 2: Push to the Azure Container Registry

Step 3: Run Your Container in Kubernetes and Train Your Model