

# MLS 10: MLOps

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# **Revise the concepts covered in the LVC-10**

# Question 1

*What is the primary purpose of MLOps in the context of machine learning model development and deployment?*

- a) To streamline communication between data scientists and software engineers
- b) To automate and optimize the end-to-end process of deploying and managing machine learning models
- c) To enhance the interpretability of machine learning models
- d) To ensure compliance with data privacy regulations

# Question 1 Answer

*What is the primary purpose of MLOps in the context of machine learning model development and deployment?*

b) To automate and optimize the end-to-end process of deploying and managing machine learning models

## Question 2

*Which of the following best describes the MLOps lifecycle stages in the correct order?*

- a) Plan >> Deploy >> Code >> Operate >> Build >> Test >> Release >> Monitor
- b) Plan >> Code >> Build >> Test >> Release >> Deploy >> Operate >> Monitor
- c) Plan >> Code >> Deploy >> Build >> Test >> Operate >> Release >> Monitor
- d) Code >> Plan >> Build >> Deploy >> Test >> Release >> Operate >> Monitor

## Question 2 Answer

*Which of the following best describes the MLOps lifecycle stages in the correct order?*

b) Plan >> Code >> Build >> Test >> Release >> Deploy >> Operate >> Monitor

## Question 3

*In the continuous integration architecture for machine learning development, which stage involves evaluating the model's performance and ensuring it meets the required standards?*

- a) Notebook
- b) Code
- c) Test
- d) Register Model

## Question 3 Answer

*In the continuous integration architecture for machine learning development, which stage involves evaluating the model's performance and ensuring it meets the required standards?*

c) Test



## Question 4

*What is the purpose of monitoring checks in a continuous delivery architecture?*

- a) To ensure the staging endpoint is approved for deployment
- b) To evaluate the model's performance against business requirements
- c) To monitor changes in the input data distribution and track the model's performance metrics over time
- d) To troubleshoot and audit recorded events and activities for the application

## Question 4 Answer

*What is the purpose of monitoring checks in a continuous delivery architecture?*

c) To monitor changes in the input data distribution and track the model's performance metrics over time

## Question 5

*What action ensures that running the app.py file will also execute the train.py file, updating the model as needed in the described CI/CD pipeline setup?*

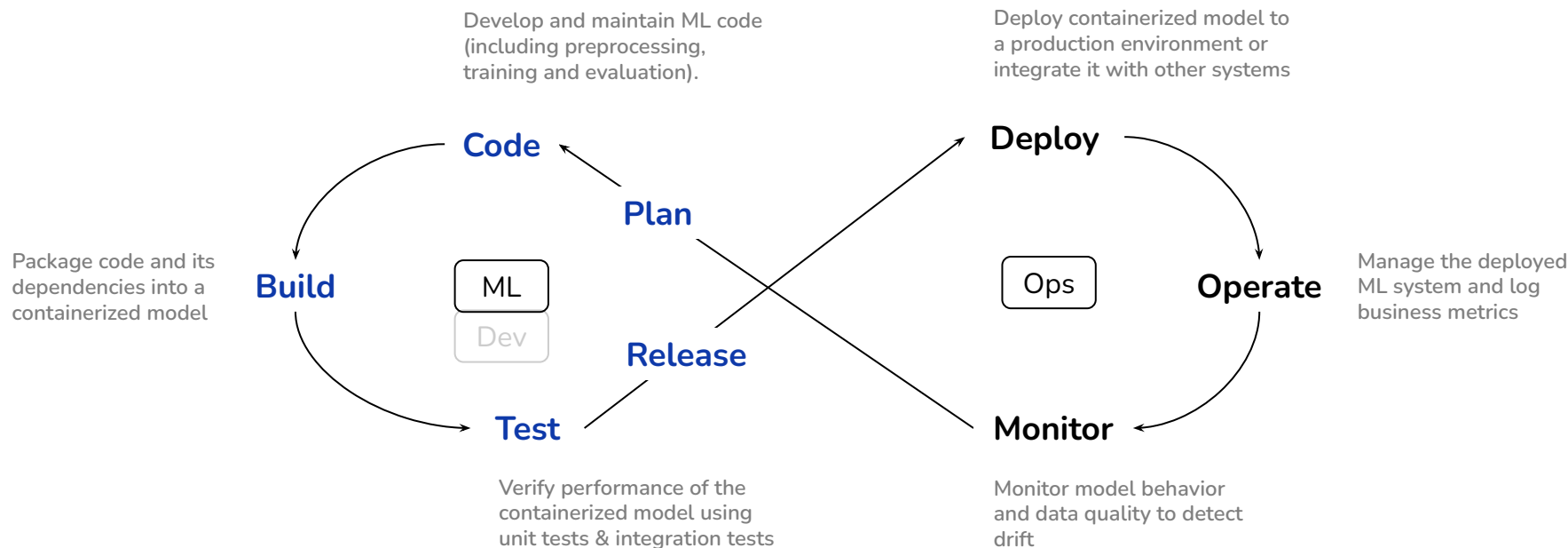
- a) Removing the existing model.joblib file from the repository.
- b) Changing the random\_state parameter to 20 in the train.py file.
- c) Adding a line of code to execute train.py in app.py.
- d) Waiting for the app status to change to "Running".

## Question 5 Answer

*What action ensures that running the app.py file will also execute the train.py file, updating the model as needed in the described CI/CD pipeline setup?*

c) Adding a line of code to execute train.py in app.py.

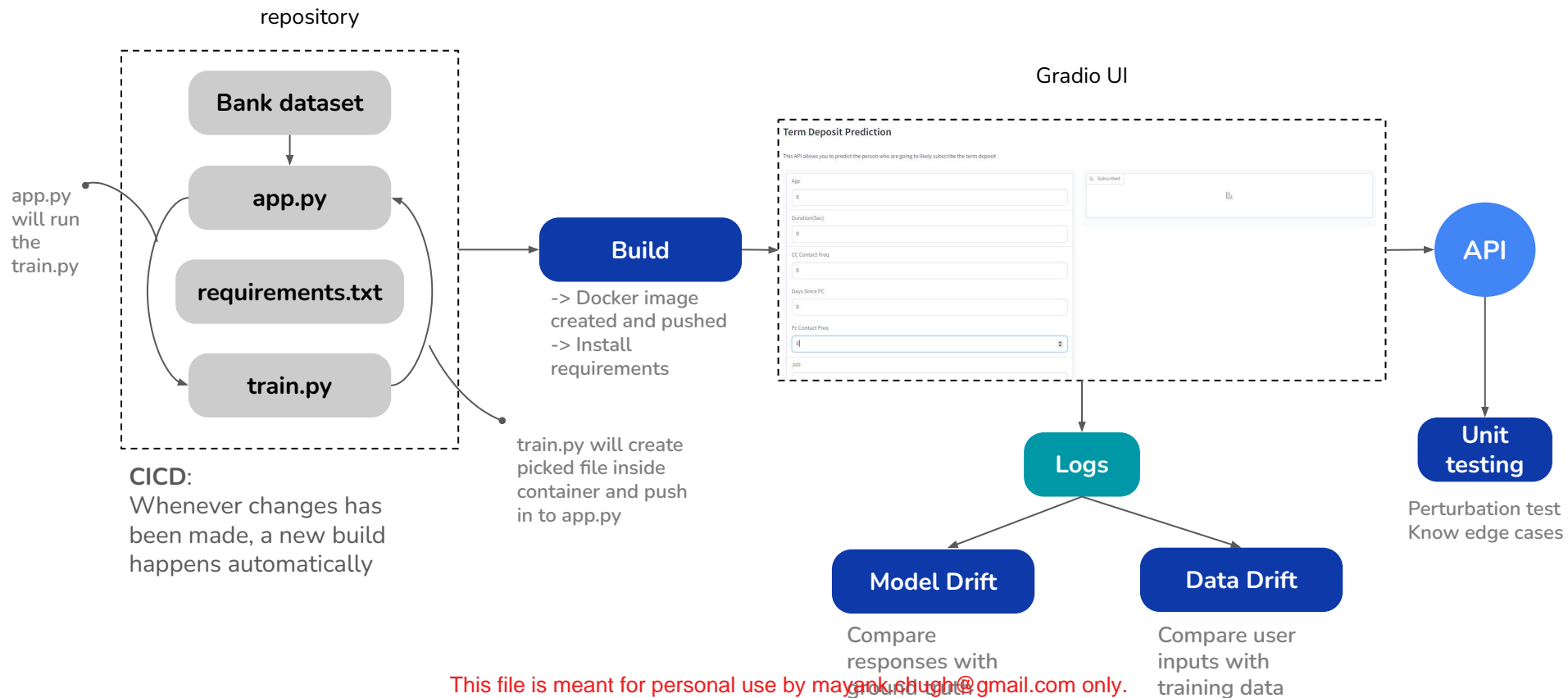
# MLOps Lifecycle Architecture



*Implementing MLOps = Carefully managing a handoff between ML Dev and Ops*

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# Solution Approach



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# Power Ahead !

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