Disclaimer:

These videos will showcase Kubernetes

A full tutorial for Kubernetes is beyond the scope of this series

If you like to learn more about Kubernetes, see the blog post link in the description, where I talk about some of the resources for learning K8s

Video Outline:

This video: I will outline the service we'll setup for this project. And demo the final product

Video 2: We will start from scratch and build a working local version, and then deploy it to GCP GKE.

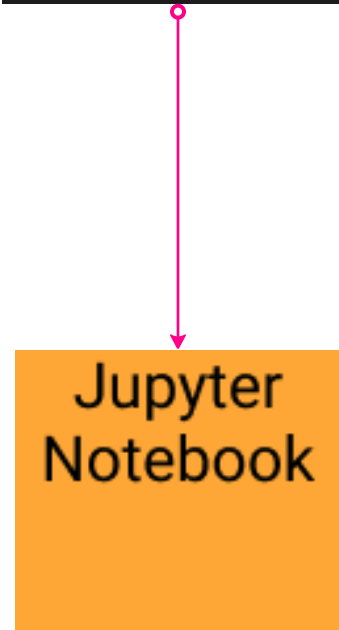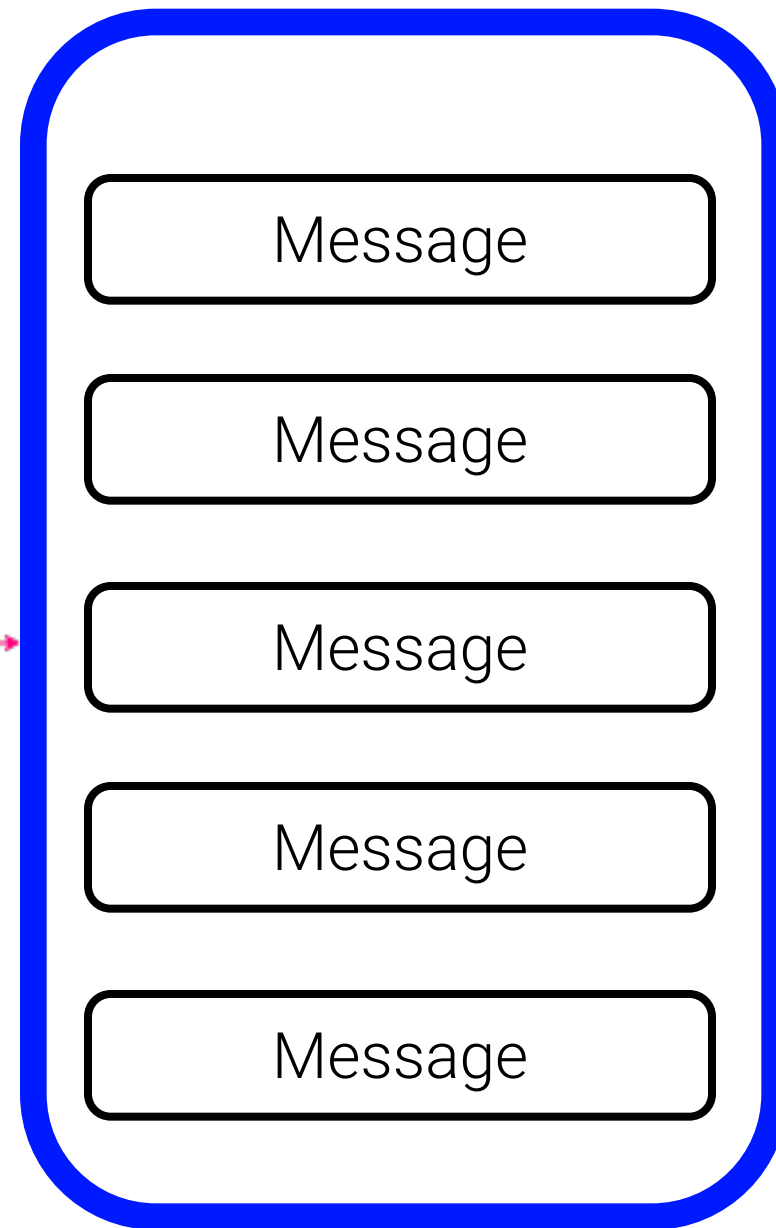Video 3: We will setup the database and complete the project.

Components

```
_param = {
"n_estimators": [100, 300, 500, 800
"criterion": ["gini", "entropy"],
"bootstrap": [True, False],

r = GridSearchCV(
estimator=classifier, param_grid=gr
scoring="accuracy",
v=5,
n_jobs=-1
```
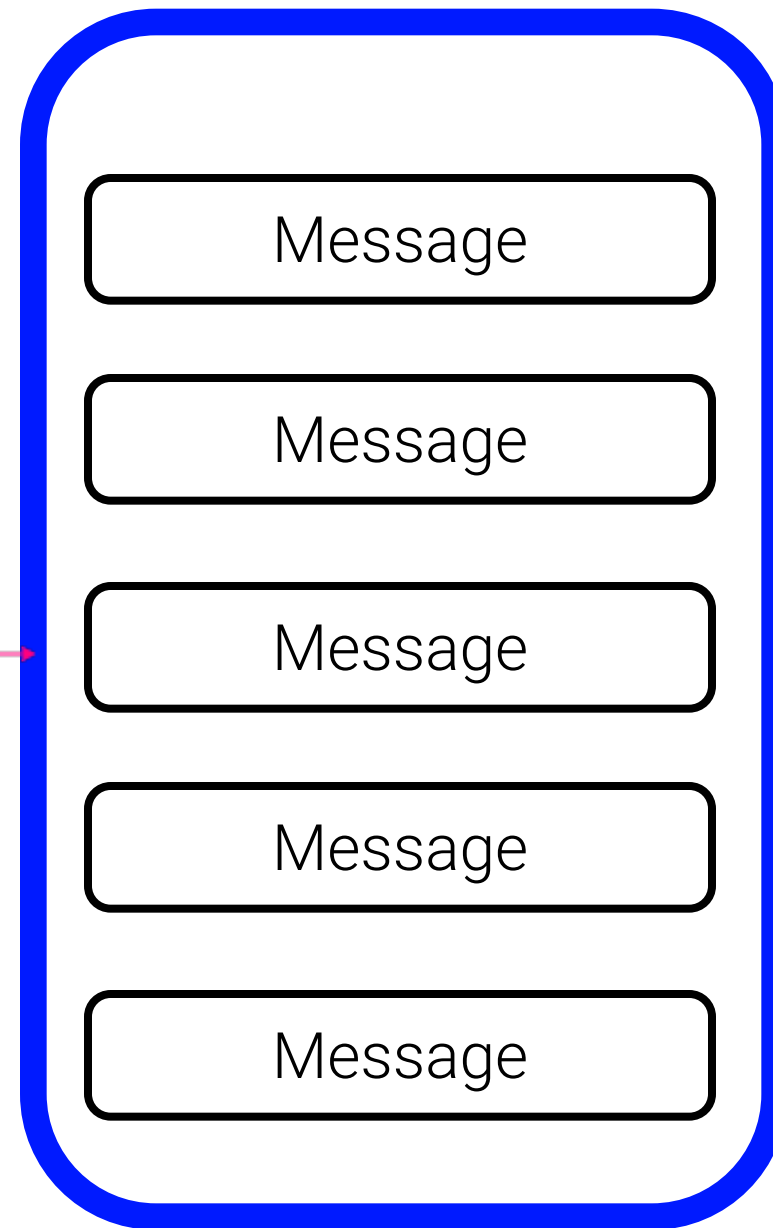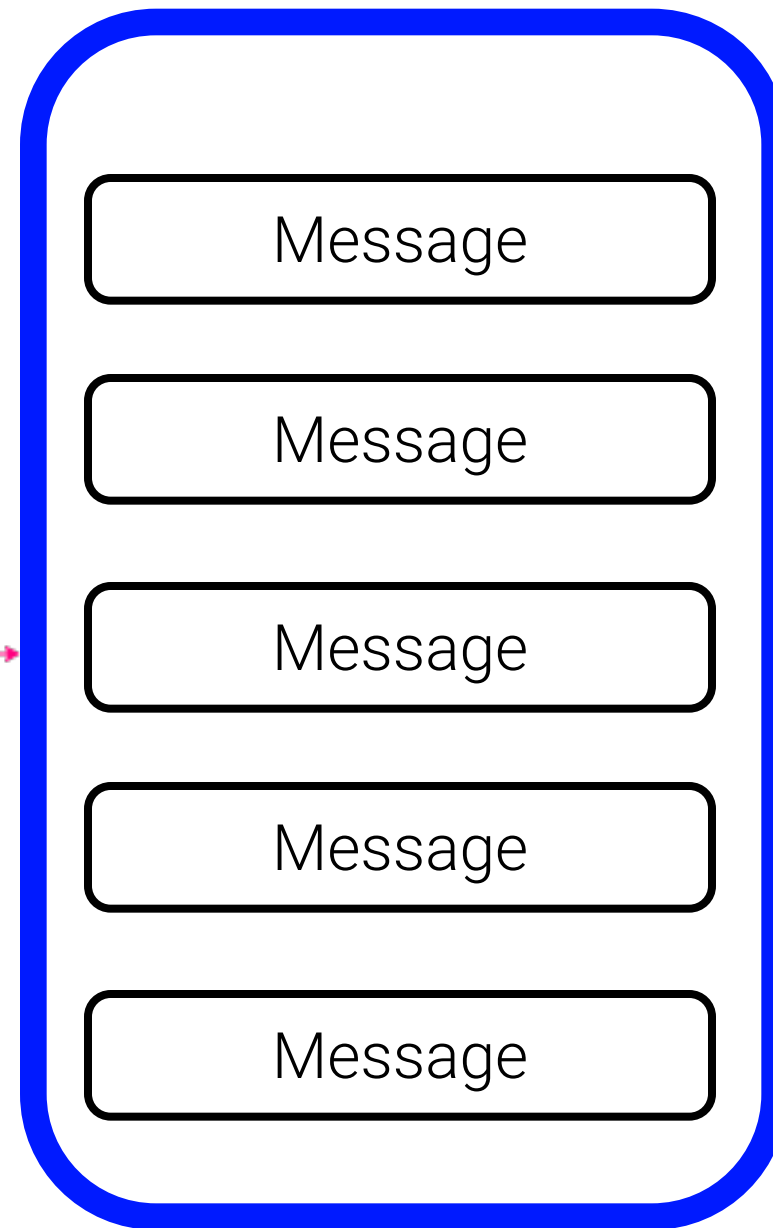
Jupyter Notebook

Components

param = {
"n_estimators": [100, 300, 500, 800
"criterion": ["gini", "entropy"],
"bootstrap": [True, False],

r = GridSearchCV(
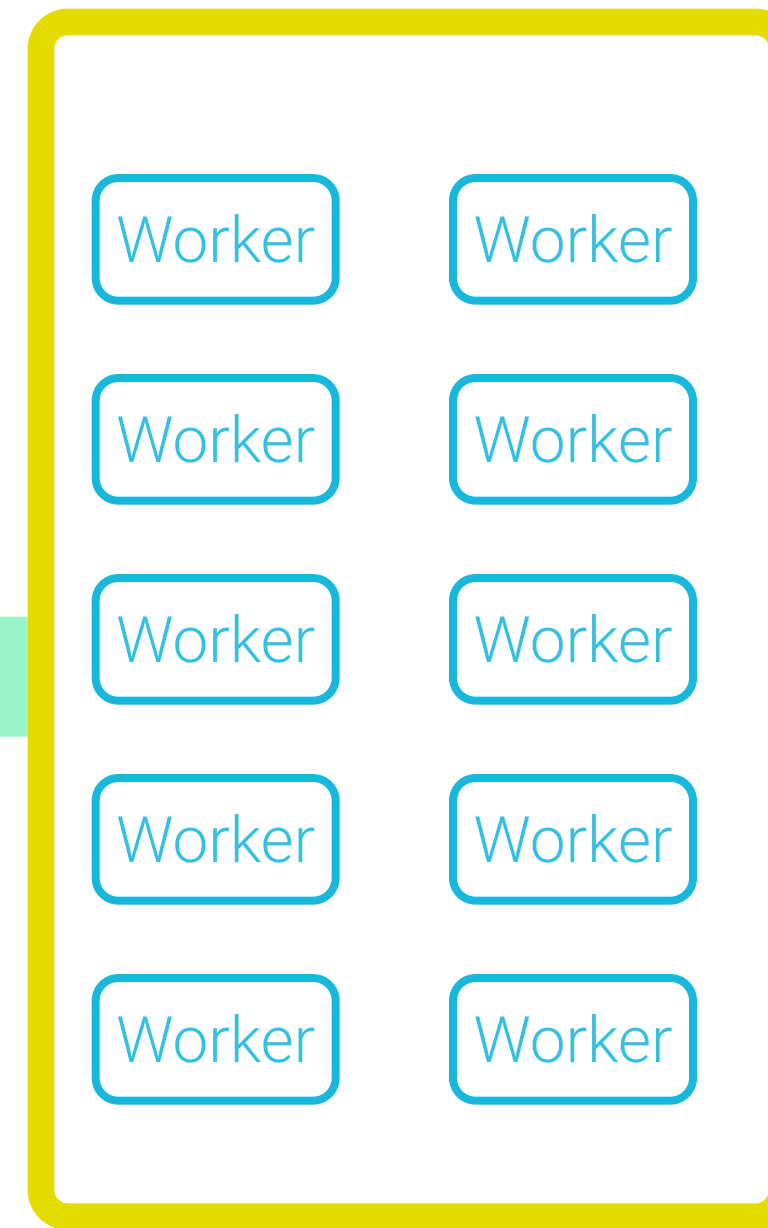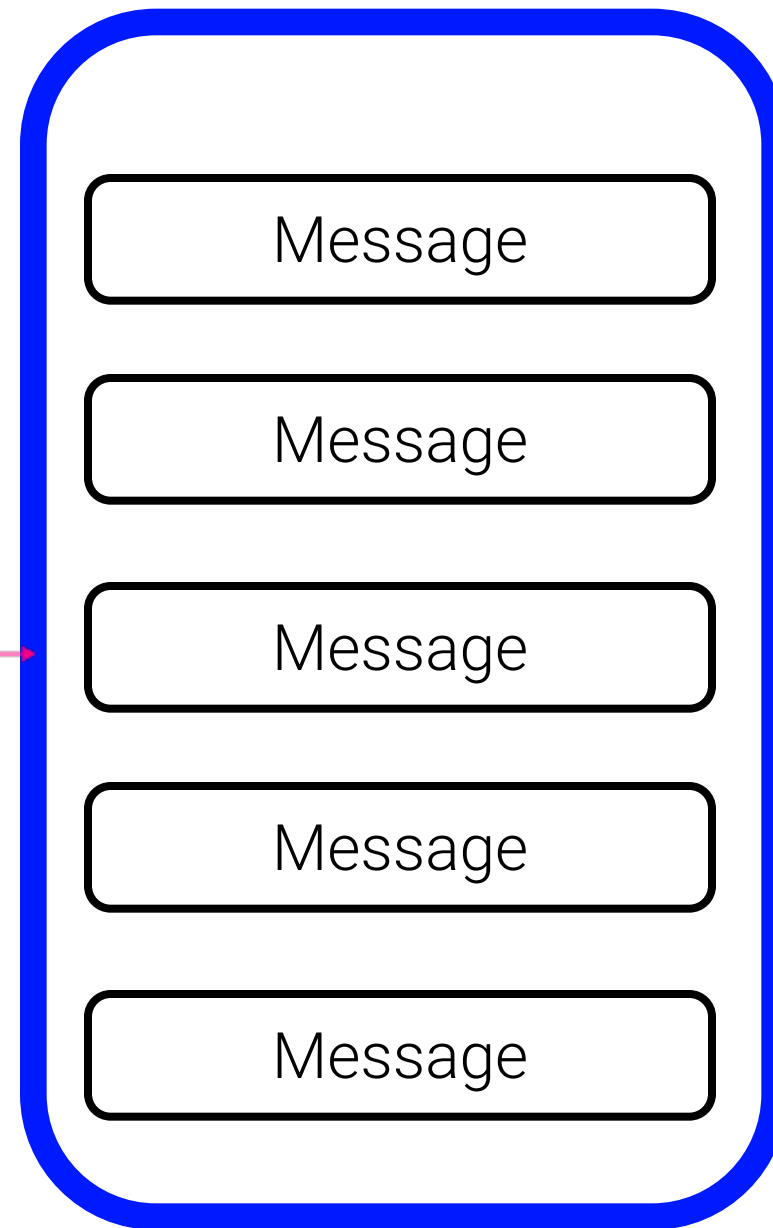estimator=classifier, param_grid=gr
scoring="accuracy",
v=5,
n_jobs=-1

RabbitMQ

| Message |
| Message |
| Message |
| Message |
| Message |

Jupyter
Notebook

JSON

Instance = 1

Components

RabbitMQ

Workers Deployment

Message

Message

Message

Worker   Worker

Message

Message

Worker   Worker

JSON

Jupyter
Notebook

Instance = 1

Instance = Many
Each Worker is build
from a container image

Components

Components

RabbitMQ

Workers Deployment

Message

Message

Message

Message

Message

Worker   Worker

Worker   Worker

Worker   Worker

Worker   Worker

Worker   Worker

JSON

Jupyter Notebook

mongoDB

Instance = 1

Instance = Many
Each Worker is build
from a container image

Instance = 1