

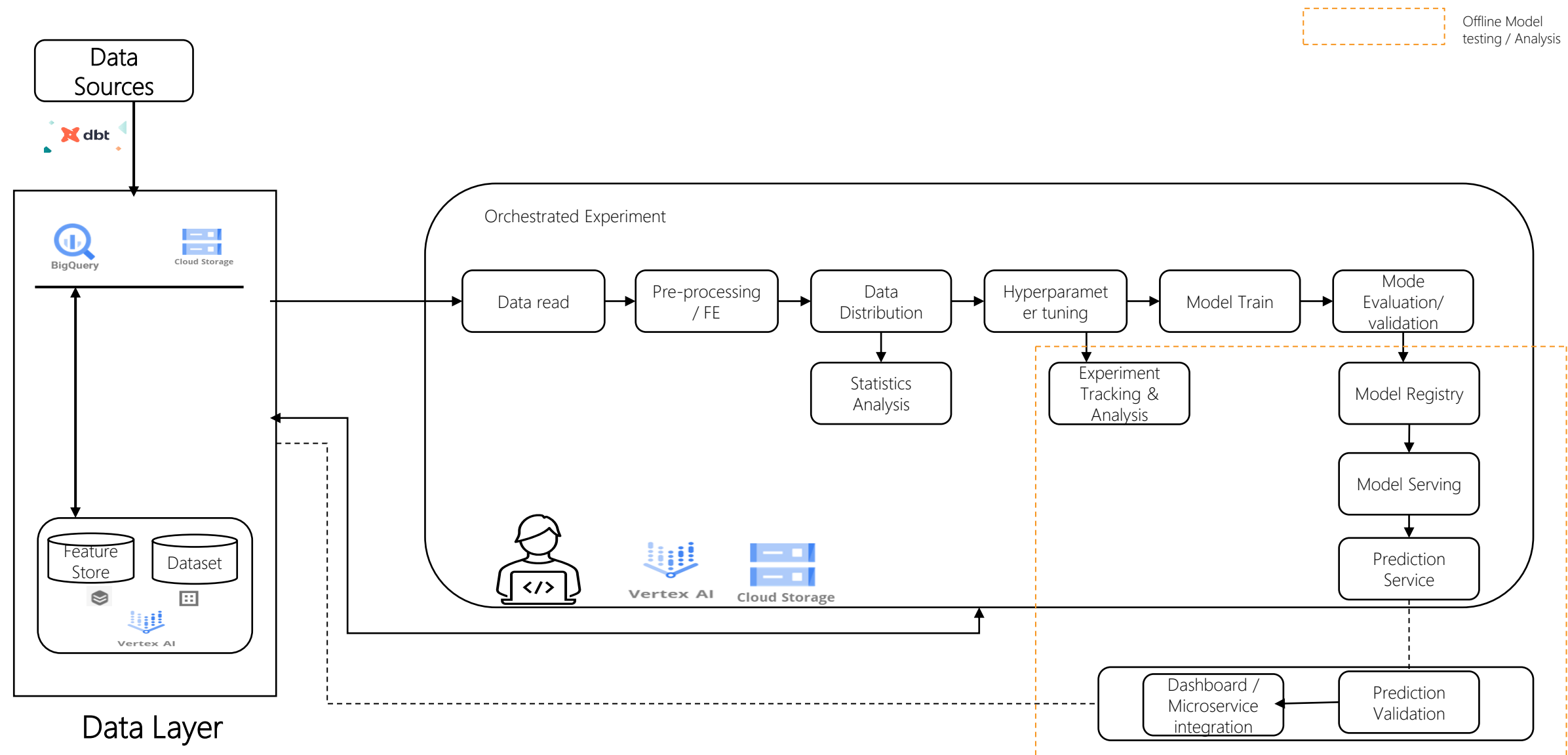


# MLOps Strategy & Framework

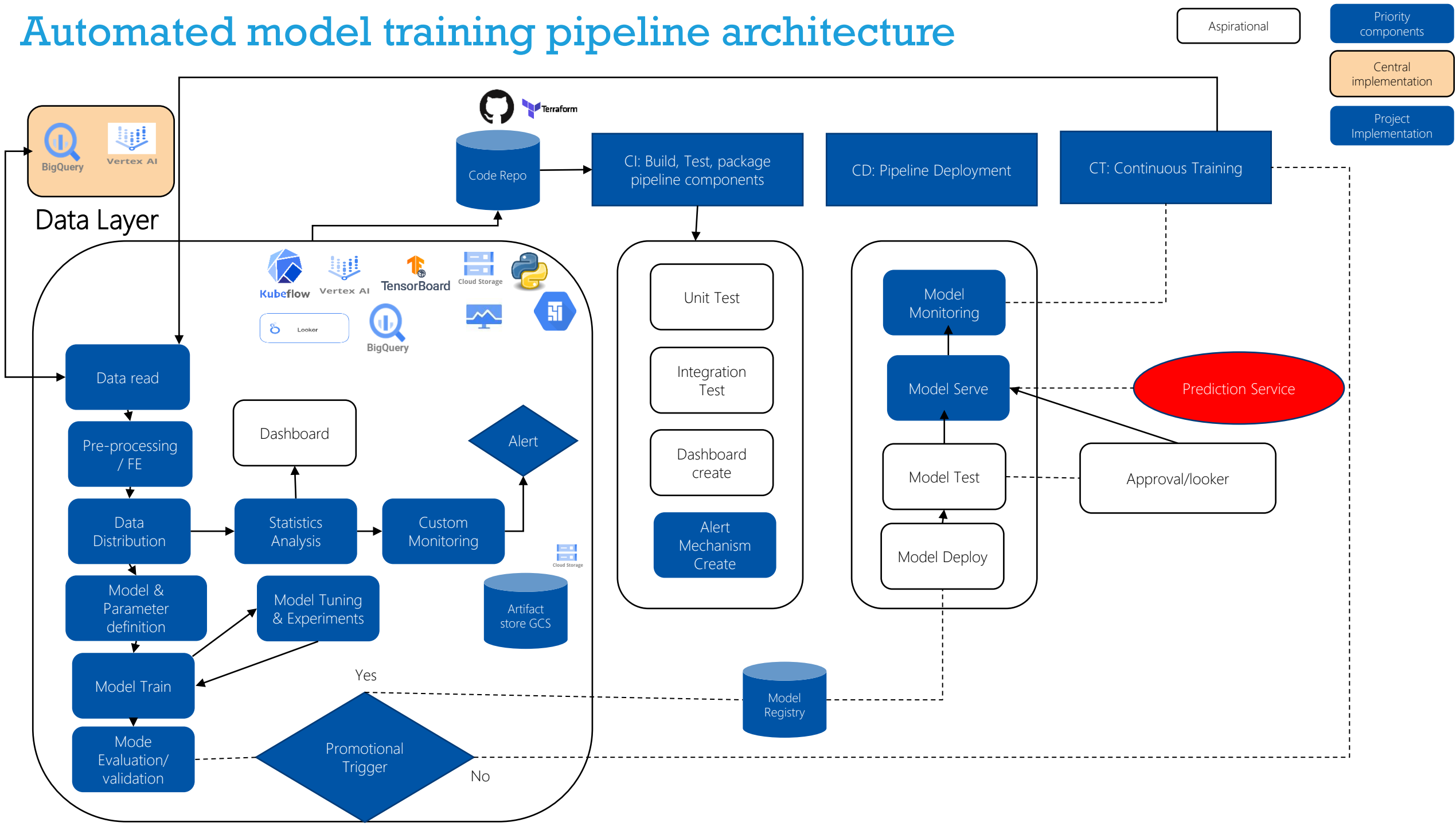
## Architecture & Solution Design (Tools)

March 23<sup>rd</sup>, 2023

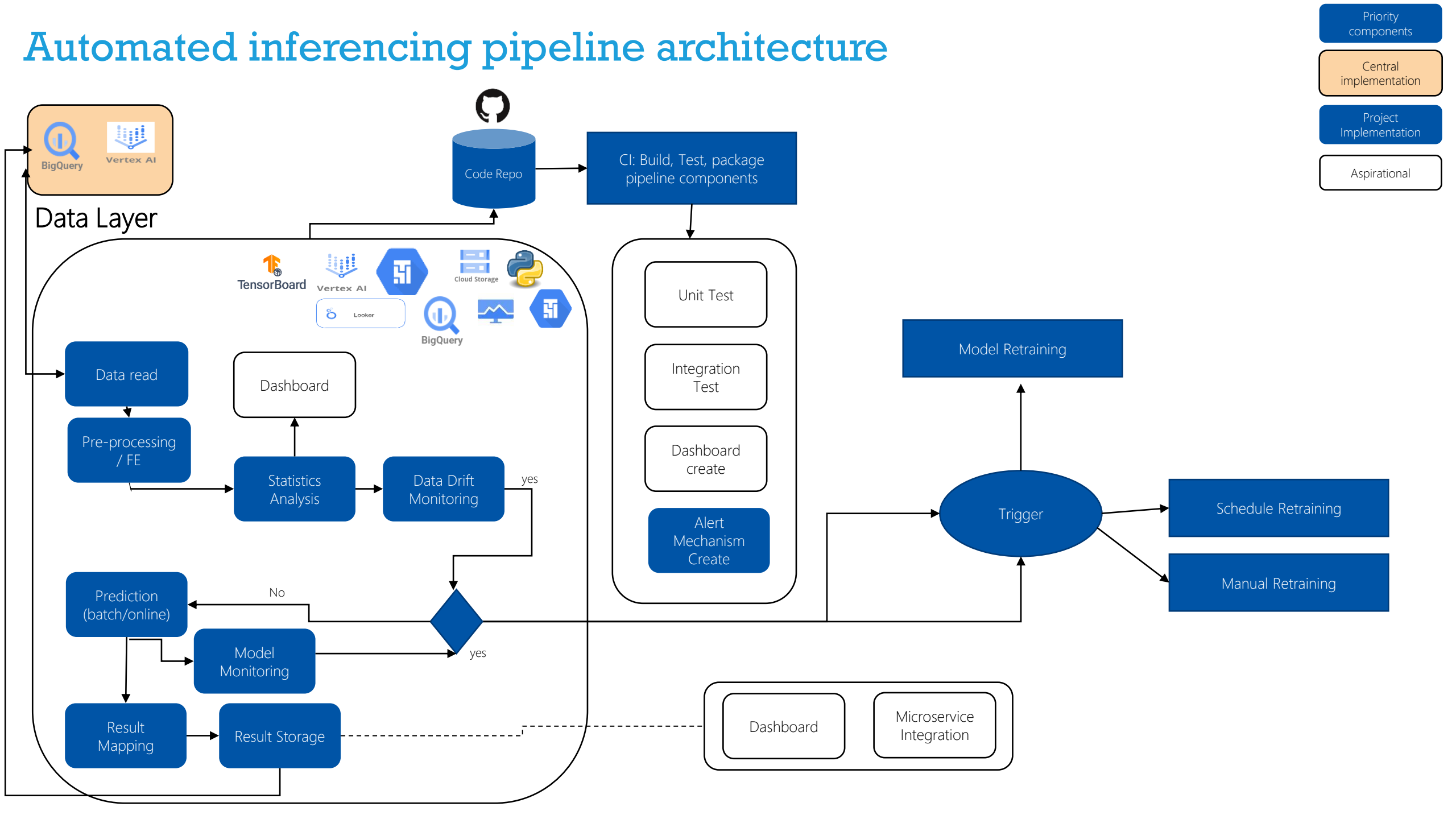
# Data Science Experimentation Zone



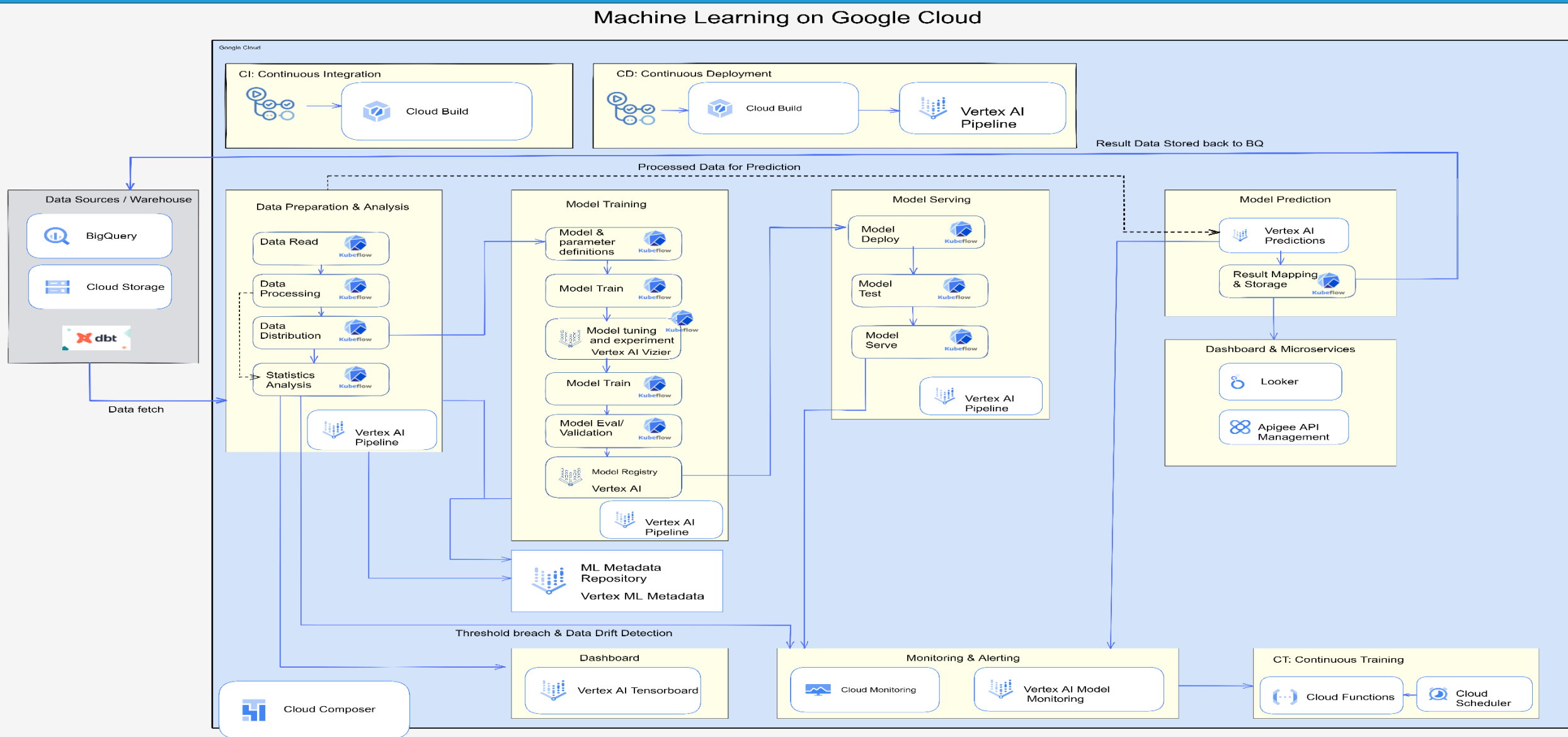
# Automated model training pipeline architecture



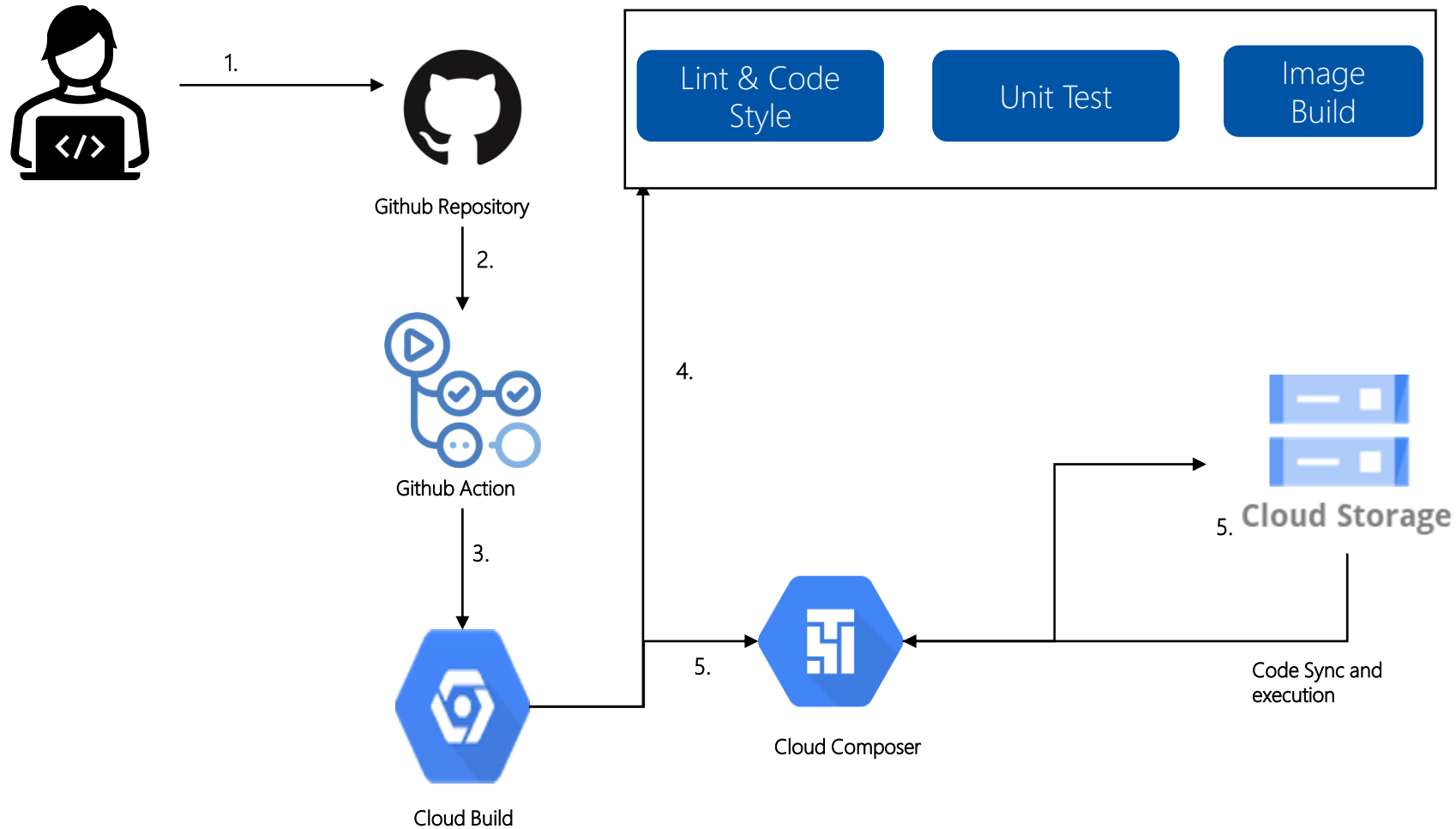
# Automated inferencing pipeline architecture



# Solution design & tools

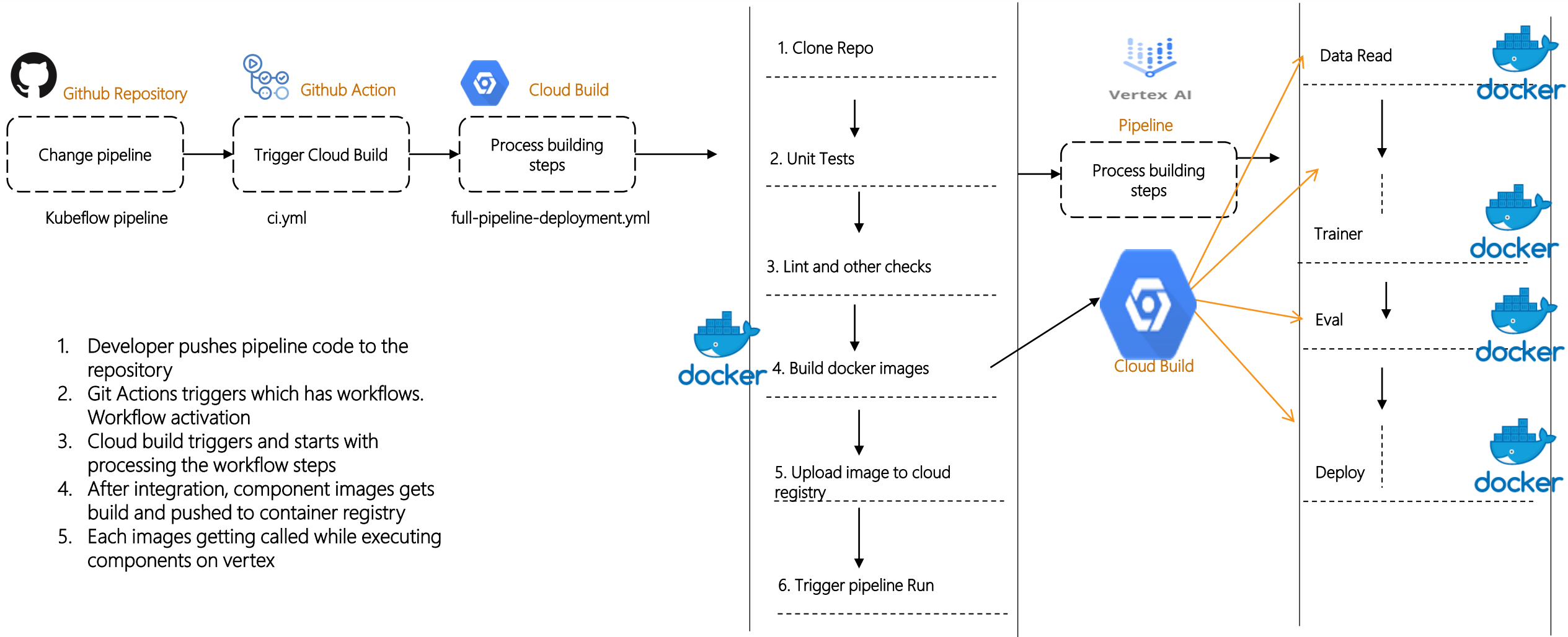


# CI/CD approach explained (overall)

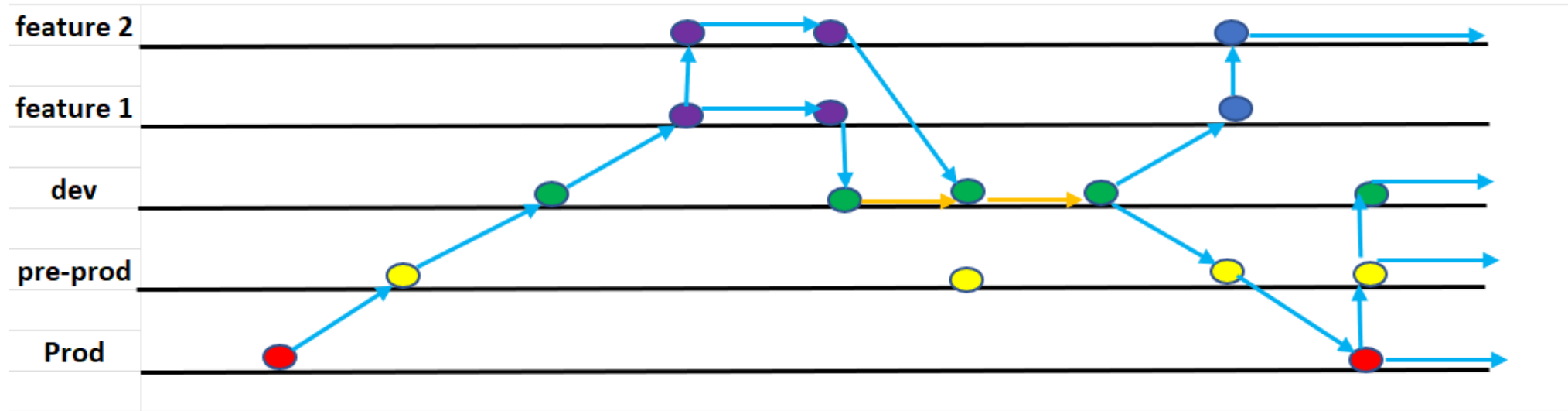


1. Developer pushes code to the repository
2. Git Actions triggers which has workflows. Workflow activation
3. Cloud build triggers and starts with running the workflow
4. Unit test and other test triggers, once passes will build images and push them
5. code sync with composer

# CI/CD explained (pipeline)



# Branching strategy



- Main master branch, production ready code
- Pre-prod, before releasing to main/master
- Up-to-date Dev branch, with latest developed features
- Feature branch for each developer to work independently on new functionality

- Code migration will occur via gitaction yaml files post pull request by developer
- Each yaml file will call actions within and execute the integration steps

\* - We will utilize GMI repo structure for our development phase