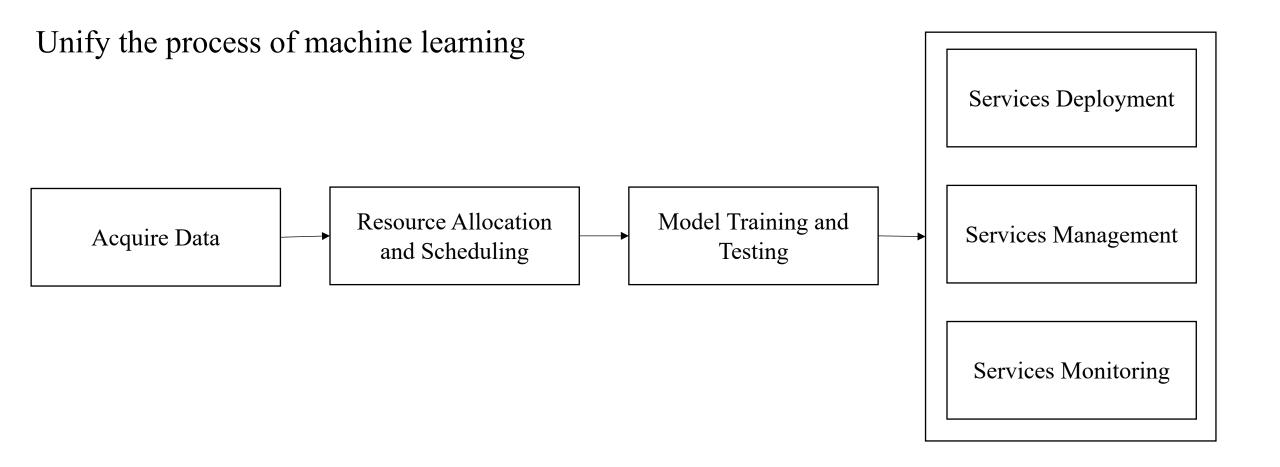
Machine Learning Platform

Content

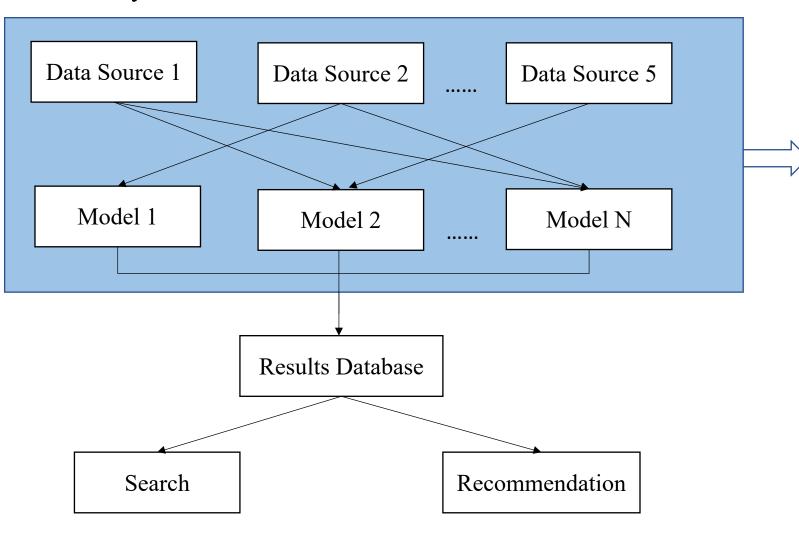
- I. Overview
- II. Contributions

I. Overview



II. Contributions

1. Unify data download method



Problems:

- Multiple datasources
- Inconsistent JSON fields format
- Duplication of work among models

Solutions:

- Integrate multiple COS
- Convert different JSON to uniform Protobuf

II. Contributions

2. Simplify services deployment and management process

```
kind: Deployment
apiVersion: apps/v1
metadata:
 name: example
 namespace: ns
 generation: 1
 creationTimestamp: '2021-06-16T07:35:43Z'
 annotations:
   deployment.kubernetes.io/revision: '1'
   description: "
 replicas: 1
   matchLabels:
     app: example
 template:
   metadata:
     creationTimestamp: null
     labels:
       app: example
       cri.cci.io/container-type: secure-container
       cri.cci.io/gpu-driver: gpu-450.80
       log.stdoutcollection.kubernetes.io: '{"collectionContainers": []}'
       metrics.alpha.kubernetes.io/custom-endpoints: '[{api:''',path:''',port:'''
     containers:
       - name: container-0
         image: 'mycloud.com/example/ex:test'
             cpu: '4'
             nvidia.com/gpu-tesla-v100-32GB: '1'
```

Problems:

- Complex deployment and management process
- Inconsistent configuration files

Solutions:

- Uniform online configuration
- Provide services upgrade/rollback interfaces
- Visualize resources utilization

A simple example of deployment configuration