

# IDS 568 MLOps - Milestone 1: Submission Evidence

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**Course:** IDS 568 MLOps

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## 1. Live Deployment URLs

- **Cloud Run (FastAPI Container):**  
`https://mlops-api-385501609124.us-central1.run.app`
- **Cloud Function (Serverless):**  
`https://us-central1-mlops-milestone1-486120.cloudfunctions.net/mlops-function`

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## 2. Testing Evidence & Expected Outputs

### A. Cloud Run (Container)

**Command:**

Bash

```
curl -X POST "https://mlops-api-385501609124.us-central1.run.app/predict" \
-H "Content-Type: application/json" \
-d '{"features": [8.3252, 41.0, 6.9841, 1.0238, 322.0, 2.5556, 37.88, -122.23]}'
```

**Expected Output:**

JSON

```
{
  "prediction": 4.151938398277785,
  "model_version": "1.0.0"
}
```

### B. Cloud Function (Serverless)

**Command:**

Bash

```
curl -X POST "https://us-central1-mlops-milestone1-486120.cloudfunctions.net/mlops-function" \
-H "Content-Type: application/json" \
-d '{"features": [8.3252, 41.0, 6.9841, 1.0238, 322.0, 2.5556, 37.88, -122.23]}'
```

**Expected Output:**

JSON

```
{  
  "backend": "Google Cloud Function",  
  "model_version": "1.0.0",  
  "prediction": 4.151938398277778  
}
```

## 3. Screenshot Evidence

### 1. Docker Push to Artifact Registry

*Evidence of successful container build and push to Google Artifact Registry.*

```
--> naming to us-central1-docker.pkg.dev/mlops-milestone1-486120/mlops-repo/fastapi-service:v1
● (venv) kirian14@Kirans-MacBook-Air milestone_1 % docker push us-central1-docker.pkg.dev/mlops-milestone1-486120/mlops-repo/fastapi-service:v1
The push refers to repository [us-central1-docker.pkg.dev/mlops-milestone1-486120/mlops-repo/fastapi-service]
7adea1396ea5: Layer already exists
5fe56dc18a85: Pushed
b3ec39b36ae8: Pushed
fc7443084902: Pushed
1d844f0a25b4: Pushed
e56f685404a: Pushed
bc6b8a9ed39: Pushed
38513bd72563: Pushed
e19d364cd488: Pushed
v1: digest: sha256:6be4cc11b2b7312b8d020b4c6ee51e2cfbeaea91d9a95f6b2447f94acde9d318 size: 856
● (venv) kirian14@Kirans-MacBook-Air milestone_1 % gcloud run deploy mlops-api
```

*(This screenshot shows the layers being pushed to us-central1-docker.pkg.dev)*

### 2. Cloud Run Deployment Success

*Evidence of the service being deployed and serving traffic.*

```
61905041C0A868: PUSHED
v1: digest: sha256:6be4cc11b2b7312b8d020b4c6ee51e2cfbeaea91d9a95f6b2447f94acde9d318 size: 856
● (venv) kirian14@Kirans-MacBook-Air milestone_1 % gcloud run deploy mlops-api \
    --image=us-central1-docker.pkg.dev/mlops-milestone1-486120/mlops-repo/fastapi-service:v1 \
    --region=us-central1 \
    --allow-unauthenticated \
    --project=mlops-milestone1-486120
Deploying container to Cloud Run service [mlops-api] in project [mlops-milestone1-486120] region [us-central1]
✓ Deploying... Done.
✓ Creating Revision...
✓ Routing traffic...
✓ Setting IAM Policy...
Done.
Service [mlops-api] revision [mlops-api-00002-8jn] has been deployed and is serving 100 percent of traffic.
Service URL: https://mlops-api-00002-8jn.iregistry.us-central1.cloud.goog
```

(This screenshot shows "Service [mlops-api] ... has been deployed and is serving 100 percent of traffic")

### 3. Cloud Run Prediction Test

Evidence of a working curl request to the Cloud Run endpoint.

```
> Setting IAM Policy...
Done.
Service [mlops-api] revision [mlops-api-00002-8jn] has been deployed and is serving 100 percent of traffic.
Service URL: https://mlops-api-385501609124.us-central1.run.app
● (venv) kirani4@Kirans-MacBook-Air milestone_1 % curl -X POST "https://mlops-api-385501609124.us-central1.run.app/predict" \
-H "Content-Type: application/json" \
-d '{"features": [8.3252, 41.0, 6.9841, 1.0238, 322.0, 2.5556, 37.88, -122.23]}'
{"prediction":4.151938398277785,"model_version":"1.0.0"}%
○ (venv) kirani4@Kirans-MacBook-Air milestone_1 %
Ln 12, Col 9  Spaces: 4  UTF-8  LF
```

(This screenshot shows the command and the JSON response with prediction 4.15...)

### 4. Cloud Function Deployment Details

Evidence of the Cloud Function active state and configuration.

```
--runtime=python311 \
serviceConfig:
  allTrafficOnLatestRevision: true
  availableCpu: '0.1666'
  availableMemory: 256M
  environmentVariables:
    LOG_EXECUTION_ID: 'true'
  ingressSettings: ALLOW_ALL
  maxInstanceCount: 12
  maxInstanceRequestConcurrency: 1
  revision: mlops-function-00002-cor
  service: projects/mlops-milestone1-486120/locations/us-central1/services/mlops-function
  serviceAccountEmail: 385501609124-compute@developer.gserviceaccount.com
  timeoutSeconds: 60
  uri: https://mlops-function-whzkjna2xq-uc.a.run.app
state: ACTIVE
updateTime: '2026-02-01T21:53:00.480314687Z'
url: https://us-central1-mlops-milestone1-486120.cloudfunctions.net/mlops-function
Ln 12, Col 9  Spaces: 4  UTF-8  LF
```

(This screenshot shows the function state: ACTIVE and the https trigger URL)

### 5. Cloud Function Prediction Test

Evidence of a working curl request to the Cloud Function endpoint.

```
state: ACTIVE
updateTime: '2026-02-01T21:53:00.480314687Z'
url: https://us-central1-mlops-milestone1-486120.cloudfunctions.net/mlops-function
● (venv) kirani4@Kirans-MacBook-Air function_deploy % curl -m 70 -X POST https://us-central1-mlops-milestone1-486120.cloudfunctions.net/mlops-function \
-H "Content-Type: application/json" \
-d '{"features": [8.3252, 41.0, 6.9841, 1.0238, 322.0, 2.5556, 37.88, -122.23]}'
{"backend":"Google Cloud Function","model_version":"1.0.0","prediction":4.151938398277785}
○ (venv) kirani4@Kirans-MacBook-Air function_deploy %
◊ Not Committed Yet (Staged)  Ln 146, Col 1  Spaces: 4  UTF-8  LF  {} Markdown  ⚙ Finish Setup
```

(This screenshot shows the command and the response {"backend": "Google Cloud Function"...})

## Verification

```
Found files in current directory.  
=====  
🛡️ IDS 568 AUTOMATED SANITY CHECK  
=====  
  
[1] Checking Required Files...  
✓ main.py found  
✓ requirements.txt found  
✓ model.pkl found  
  
[2] Checking Dependency Pinning...  
✓ All dependencies are pinned  
  
[3] Checking Pydantic Schemas...  
✓ Pydantic models found  
  
[4] Testing Cloud Run Endpoint...  
✓ Cloud Run success (200 OK)  
  
[5] Testing Cloud Function Endpoint...  
✓ Cloud Function success (200 OK)  
=====  
🎉 Sanity Check Complete!
```