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

```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]}'
```
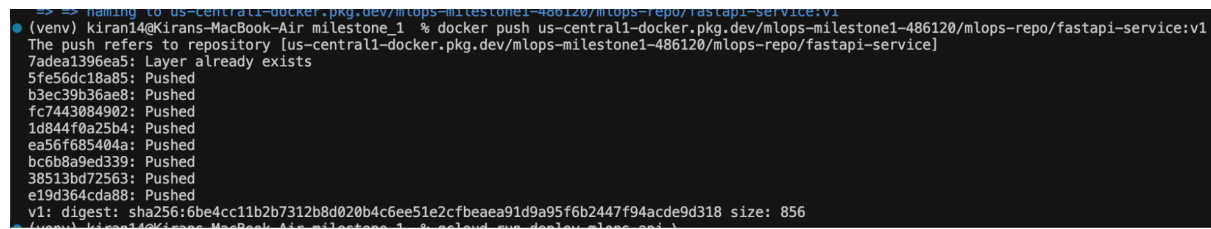
Expected Output:

JSON

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

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3. Screenshot Evidence

1. Docker Push to Artifact Registry

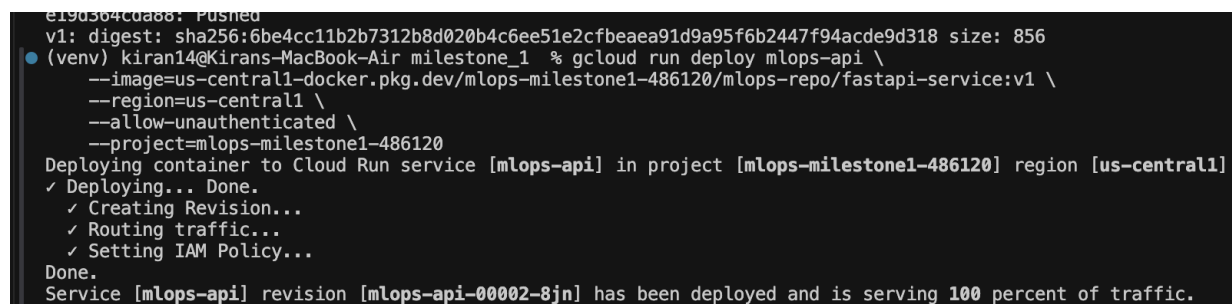*Evidence of successful container build and push to Google Artifact Registry.*

(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.

(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) kiran14@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) kiran14@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
```

(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) kiran14@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":4.151938398277778}
○ (venv) kiran14@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"...})