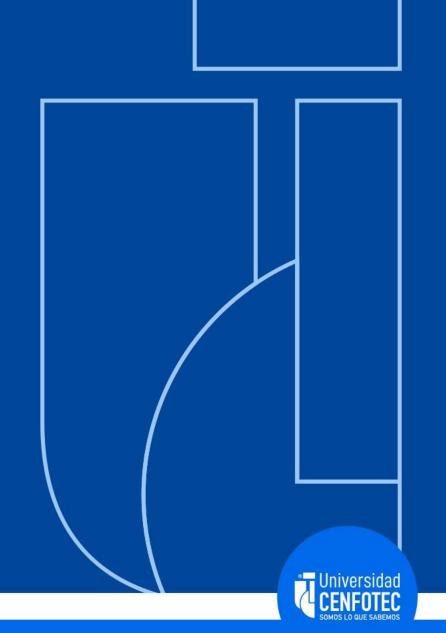
Proyecto CGR-GIZ-CENFOTEC

IA – Modelo y Estimación de implementación

Msc. Rodrigo Herrera



Objetivo

- Avances del Modelo
- Demo
- Revisión de arquitectura de implementación
- Revisión de costos de arquitectura

Imágenes





Vagonetas







Excavadoras











Imágenes



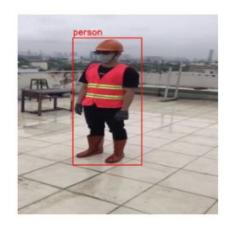


Cargadores











Personas







Imágenes













Cantidad por clase son:

Dump_truck: 7855

• Excavator: 7323

• Loader: 4870

Mixer_truck: 1992

• Person: 2192

Modelos y proceso de entrenamiento

```
Epoch #0 loss: 0.08119627088308334

Epoch #1 loss: 0.049133557826280594

Epoch #2 loss: 0.053207721561193466

Epoch #3 loss: 0.06533277779817581

Epoch #4 loss: 0.02320614829659462

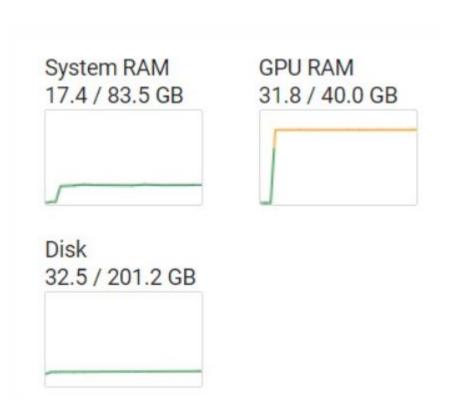
Epoch #5 loss: 0.041896190494298935

Epoch #6 loss: 0.027884017676115036

Epoch #7 loss: 0.033624108880758286

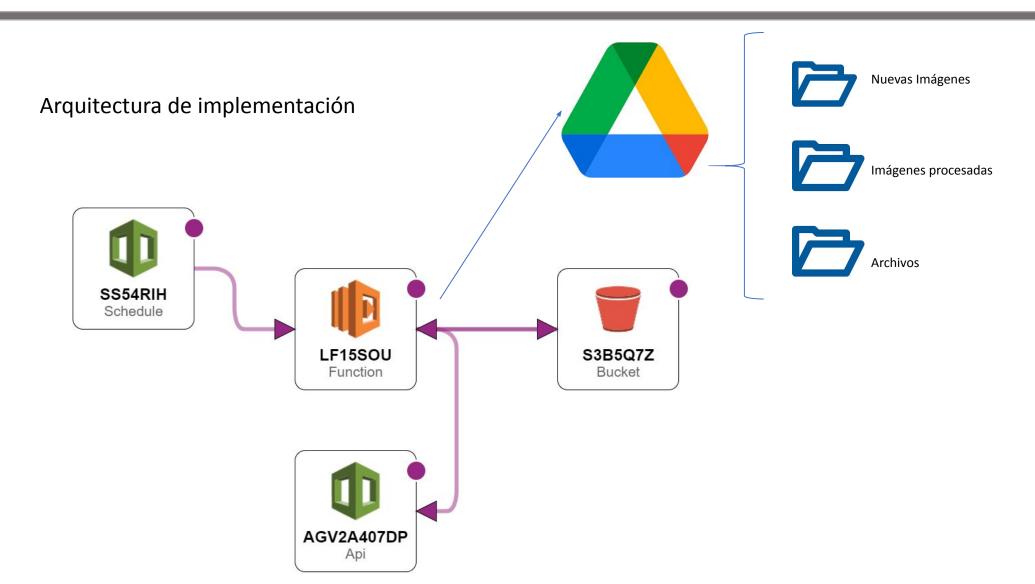
Epoch #8 loss: 0.009445509873330593

Epoch #9 losss: 0.043928906321525574
```



Demo





Estimación de Costos

Estimate summary

Upfront cost

Monthly cost

Total 12 months cost

0.03 USD

124.99 USD

1,499.91 USD

Includes upfront cost

Detailed Estimate

Name	Group	Region	Upfront cost	Monthly cost
AWS Lambda	No group	US East (Ohio)	0.00 USD	0.01 USD
	applied			

Status: -

Description:

Config summary: Architecture (x86), Architecture (x86), Invoke Mode (Buffered), Amount of ephemeral storage allocated (2 GB), Number of requests (1000 per day)

Amazon Simple

No group US East (Ohio)

Ohio) 0.03

0.03 USD

3.31 USD

Storage Service applied

(S3)

Status: -

Description:

Config summary: S3 Standard storage (100 GB per month), S3 Standard Average Object Size (16 MB), PUT, COPY, POST, LIST requests to S3 Standard (1000), GET, SELECT, and all other requests from S3 Standard (1000), Data returned by S3 Select (2 GB per month), Data scanned by S3 Select (2 GB per month) DT Inbound: Internet (50 GB per month), DT Outbound: All other regions (50 GB per month)

Name	Group	Region	Upfront cost	Monthly cost
Amazon API	No group	US East (Ohio)	0.00 USD	121.67 USD
Gateway	applied			

Status: -

Description:

Config summary: REST API request units (thousands), Cache memory size (GB) (None), WebSocket message units (thousands), HTTP API requests units (thousands), Average size of each request (2 MB), Average message size (32 KB), Requests (1000 per day), Requests (0 per day)

Quotas		
Queries	Per 60 seconds	12,000
	Per 60 seconds per user	12,000

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