

A decorative network diagram in the top-left corner, featuring a complex web of interconnected nodes and lines. The nodes are represented by small circles, some of which are highlighted with a purple outline. The lines are thin and gray, creating a mesh-like structure.


Kalah : A place for all the artists

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A decorative network diagram in the bottom-right corner, similar to the one in the top-left. It shows a cluster of nodes connected by lines, with several nodes highlighted by purple outlines.

A decorative network diagram in the top-left corner, featuring a complex web of interconnected nodes and lines, with some nodes highlighted in blue and others in grey.

Agenda

- 
- A decorative network diagram in the bottom-right corner, featuring a complex web of interconnected nodes and lines, with some nodes highlighted in blue and others in grey.
- Motivation
 - Project Description & Features
 - Design
 - About Model
 - Model Performance

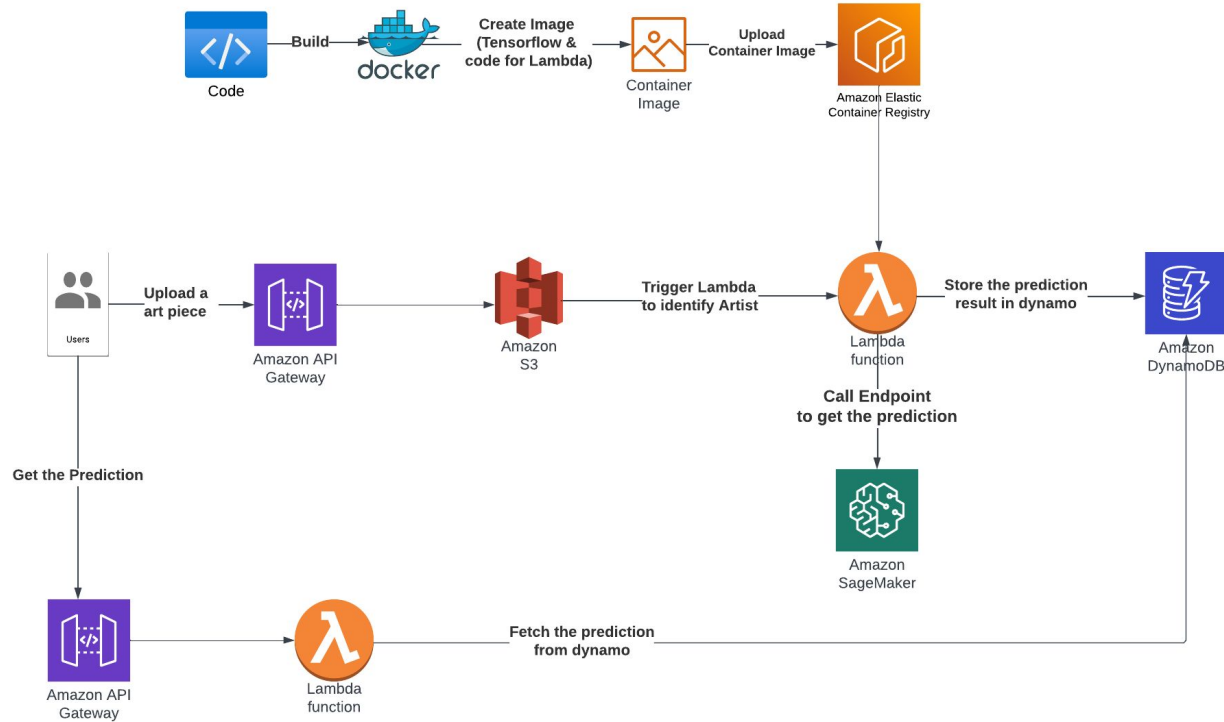
Motivation

- ❑ Building a platform to enable small artists to tell their stories and market their art pieces, ultimately enabling them to sell their art pieces online
- ❑ We want to bridge the gap between artists and middle-class people who are art enthusiasts and would like to buy affordable art for themselves and might not have a great understanding of it.

Product Features

- ❑ Login/SignUp
- ❑ Search Arts by Artist name, Description & Labels
- ❑ Upload Art Piece & its information
- ❑ Find Artist From Image

System Design: Identify Art from Artist



Push to ECR Container Registry

```
((base) mohitshankarpurnani@MOHITs-MBP tensorflow-inference-docker-lambda % sam deploy
8f9ef4166d0: Pushed
dec7d455c62d: Layer already exists
6c9c77855128: Layer already exists
964f656e9752: Layer already exists
db974cc2793: Layer already exists
86bb584618c: Layer already exists
c8e136a9e292: Layer already exists
914c554a41b0: Layer already exists
50371926d9f3: Layer already exists
d3cd6d8c0fe9: Layer already exists
237a70518fc1: Layer already exists
2e6217b44c5e: Layer already exists
820796327543: Layer already exists
07bac42da739: Layer already exists
tensorflowinferencefunction-7501b63c4797-python3.7-v1: digest: sha256:5fd9eddc740c65ad3405f38331fe44dcca7dc786b5aca2280b2d10f87cc0a0b1 size: 3267

Deploying with following values
=====
Stack name           : sam-app
Region              : us-east-1
Confirm changeset   : True
Disable rollback    : False
Deployment image repository :
{
    "TensorFlowInferenceFunction": "137929100830.dkr.ecr.us-east-1.amazonaws.com/samapp7427b055/tensorflowinferencefunction402a36b7repo"
}
Deployment s3 bucket : aws-sam-cli-managed-default-samclisourcebucket-odkf1pgbvrq
Capabilities         : ["CAPABILITY_IAM"]
Parameter overrides  : {}
Signing Profiles     : {}

Initiating deployment
=====
Uploading to sam-app/5e86f498d9cfa172f8dec884c4a5b6cf.template 1118 / 1118 (100.00%)

Waiting for changeset to be created..
CloudFormation stack changeset

-----
Operation              LogicalResourceId      ResourceType      Replacement
-----
* Modify               TensorFlowInferenceFunction  AWS::Lambda::Function  False
-----

Changeset created successfully. arn:aws:cloudformation:us-east-1:137929100830:changeSet/samcli-deploy1671670716/ef4a6424-ebd2-450a-aa95-a95d42898e6b

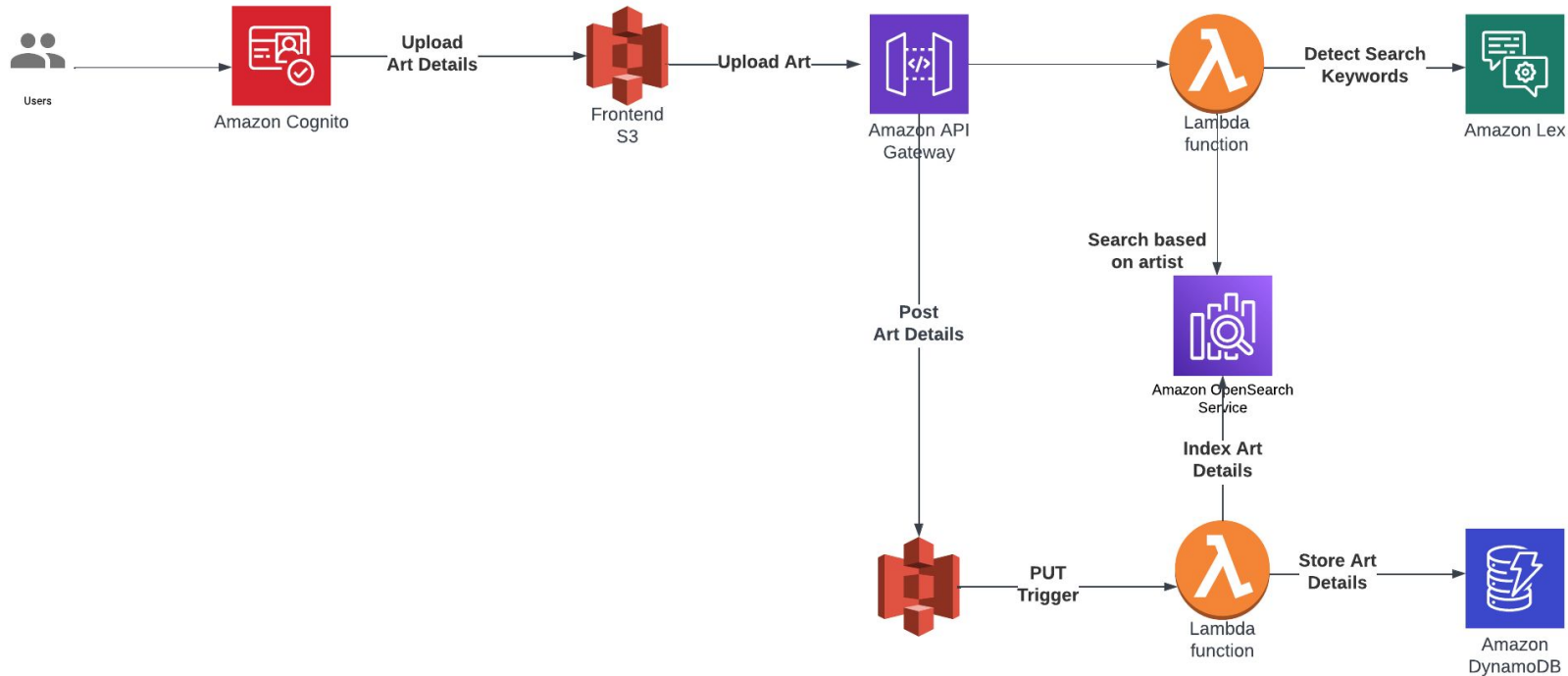
Previewing CloudFormation changeset before deployment
=====
Deploy this changeset? [y/N]: y

2022-12-21 19:58:50 ~ Waiting for stack create/update to complete

CloudFormation events from stack operations (refresh every 0.5 seconds)
-----
ResourceStatus      ResourceType      LogicalResourceId      ResourceStatusReason
-----
UPDATE_IN_PROGRESS  AWS::Lambda::Function  TensorFlowInferenceFunction  -
UPDATE_COMPLETE     AWS::Lambda::Function  TensorFlowInferenceFunction  -
UPDATE_COMPLETE_CLEANUP_IN_PROGRESS  AWS::CloudFormation::Stack  sam-app  -
UPDATE_COMPLETE     AWS::CloudFormation::Stack  sam-app  -
-----

CloudFormation outputs from deployed stack
```

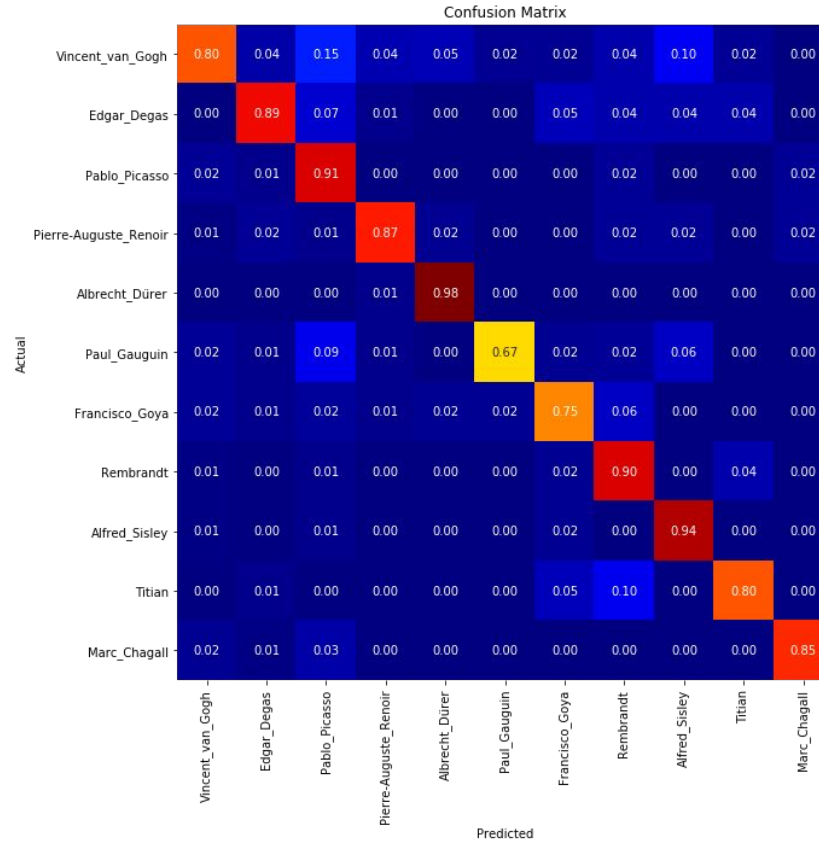
System Design: Store & Search Art Pieces



About Model

- ❑ Used Tensorflow Resnet50 Model
- ❑ Trained model for 10 epochs
- ❑ For optimization we used Adam optimizer with a learning rate of 0.0001
- ❑ For loss calculation used categorical cross entropy

Model Performance



A decorative network diagram in the top-left corner, featuring a complex web of interconnected nodes and lines. Some nodes are highlighted with purple circles, and others with solid purple dots.

Thank You !

A decorative network diagram in the bottom-right corner, featuring a complex web of interconnected nodes and lines. Some nodes are highlighted with purple circles, and others with solid purple dots.