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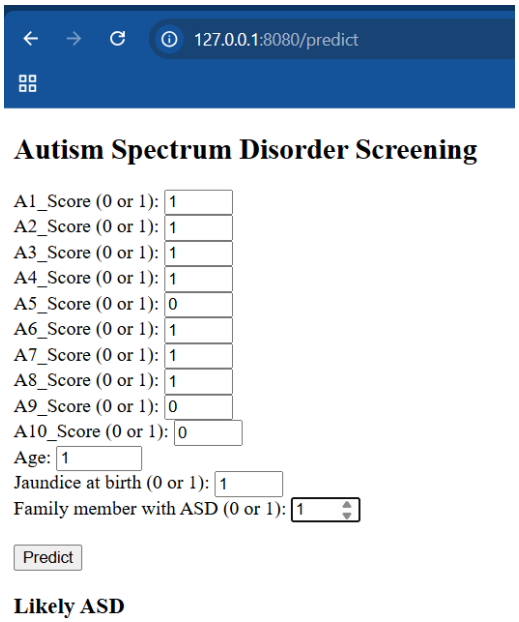
Batch Code: LISUM 46

Submission Date: 06.07.2025

Submitted to: Internship Mentor

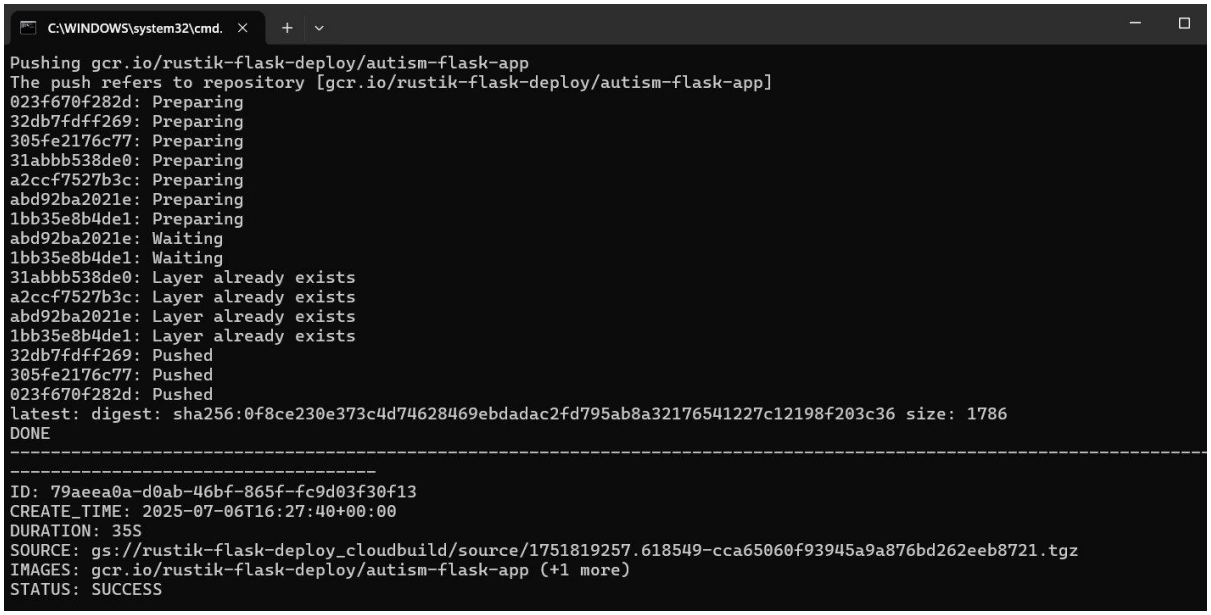
Title: Deployment of Autism Detection Model using Flask and Google Cloud Run

1. Flask app running locally

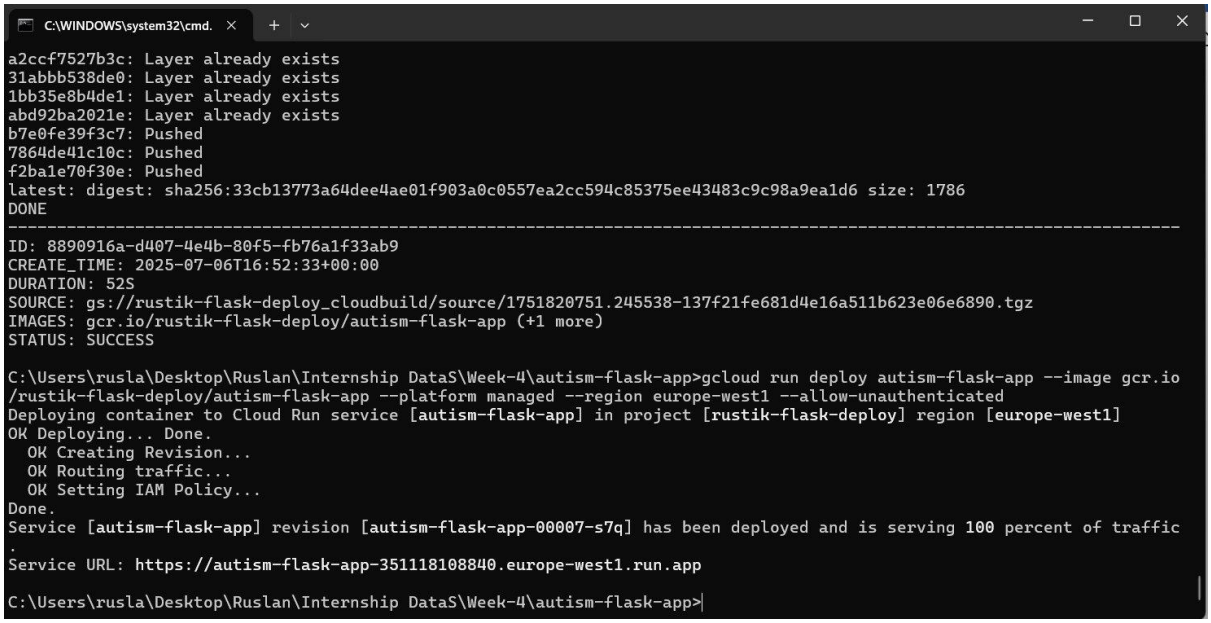


2. Auth to GCP and Docker image build

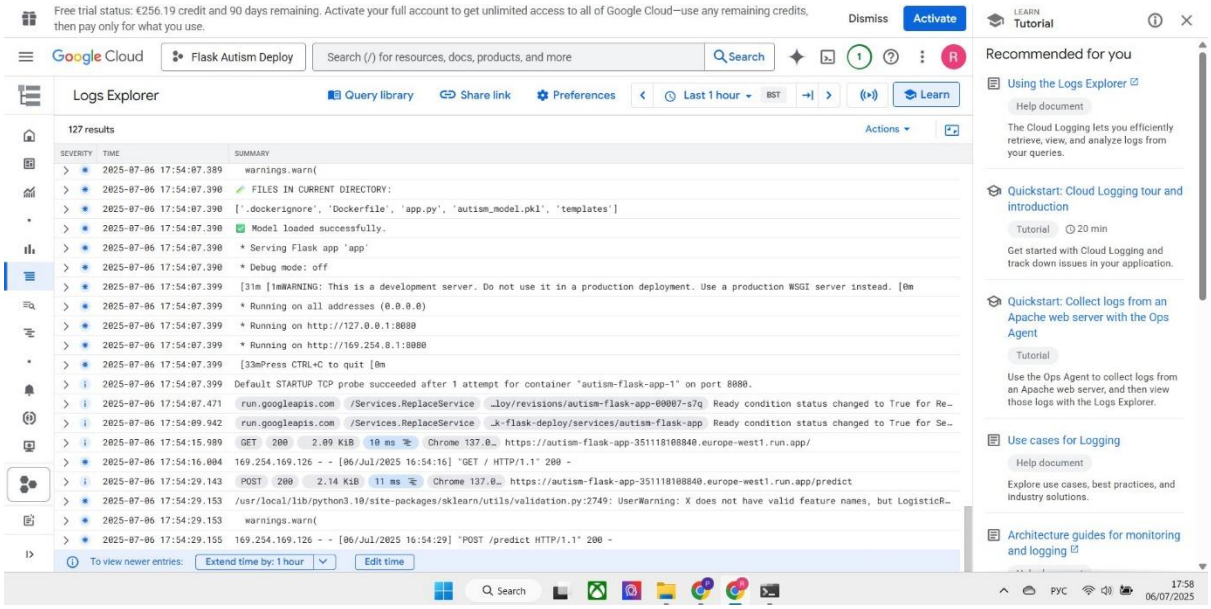
```
Microsoft Windows [Version 10.0.26100.4484]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rusla>cd "C:\Users\rusla\Desktop\Ruslan\Internship DataS\Week-4\autism-flask-app"

C:\Users\rusla\Desktop\Ruslan\Internship DataS\Week-4\autism-flask-app>gcloud auth login
Your browser has been opened to visit:

    https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=32555940559.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A8085
%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googlea
pis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2F
www.googleapis.com%2Fauth%2Faccounts.reauth&state=owXxDU1k4wKpkdO581it0hoR2yUcNQ&access_type=offline&code_challenge=Qb7H5wPApB1Rxh5aiIhpATIixTDq2G7YAqKlvF8C
0M4&code_challenge_method=S256


You are now logged in as [tigrrustik0@gmail.com].
Your current project is [rustik-flask-deploy].  You can change this setting by running:
  $ gcloud config set project PROJECT_ID

C:\Users\rusla\Desktop\Ruslan\Internship DataS\Week-4\autism-flask-app>gcloud builds submit --tag gcr.io/rustik-flask-deploy/autism-flask-app
Creating temporary archive of 7 file(s) totalling 8.4 KiB before compression.
Uploading tarball of [.] to [gs://rustik-flask-deploy_cloudbuild/source/1751819257.618549-cca65060f93945a9a876bd262eeb8721.tgz]
Created [https://cloudbuild.googleapis.com/v1/projects/rustik-flask-deploy/locations/global/builds/79aeea0a-d0ab-46bf-865f-fc9d03f30f13].
Logs are available at [ https://console.cloud.google.com/cloud-build/builds/79aeea0a-d0ab-46bf-865f-fc9d03f30f13?project=351118108840 ].
Waiting for build to complete. Polling interval: 1 second(s).
------------------------------------------------- REMOTE BUILD OUTPUT ------------------------------------------------
starting build "79aeea0a-d0ab-46bf-865f-fc9d03f30f13"

FETCHSOURCE
Fetching storage object: gs://rustik-flask-deploy_cloudbuild/source/1751819257.618549-cca65060f93945a9a876bd262eeb8721.tgz#1751819259896202
Copying gs://rustik-flask-deploy_cloudbuild/source/1751819257.618549-cca65060f93945a9a876bd262eeb8721.tgz#1751819259896202...
/ [1 files][  3.8 KiB/  3.8 KiB]
Operation completed over 1 objects/3.8 KiB.
BUILD
Already have image (with digest): gcr.io/cloud-builders/docker
Sending build context to Docker daemon  7.168kB
Step 1/6 : FROM python:3.10-slim
3.10-slim: Pulling from library/python
3da95a905ed5: Pulling fs layer
0ebcc011f0ec: Pulling fs layer
92d63ec5cbeb: Pulling fs layer
```



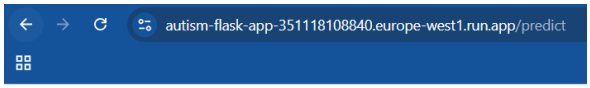
3. Cloud Run deployment



4. Log output confirming model load



5. Live prediction example



Autism Spectrum Disorder Screening

A1_Score (0 or 1): 1
A2_Score (0 or 1): 1
A3_Score (0 or 1): 1
A4_Score (0 or 1): 1
A5_Score (0 or 1): 0
A6_Score (0 or 1): 0
A7_Score (0 or 1): 1
A8_Score (0 or 1): 1
A9_Score (0 or 1): 1
A10_Score (0 or 1): 1
Age: 10
Jaundice at birth (0 or 1): 1
Family member with ASD (0 or 1): 1

Predict

No ASD traits detected