Using Tech Giants for Data Rescue:

Amazon Textract Google Vision OpenAl ChatGPT

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I asked ChatGPT for a stylised illustration of 'someone using Amazon and Google to get the job done'.

2024-03-26

Philip Brohan (philip.brohan@metoffice.gov.uk)

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"Transcription is fundamentally slow - speeds in these projects vary from 6 observations/minute to 1 observation every 3 minutes. It also consumes a lot of work - from 0.2 to 2.2 person-minutes for each observation. This is the major current limitation: the number of observations remaining to be transcribed is unknown, but 1 billion (1,000,000,000) is a reasonable planning number. At typical rates shown above, this will take of order 100 years elapsed, (and 500 person-years effort). This is too long we must go faster."

"Document transcription is not a climate-specific problem it is valuable to many fields."

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- Easily integrate with BigQuery, Cloud Functions, and your cameras to enable end to end journey



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Boto3 1.34.55 documentation

Q Search

Feedback

Do you have a suggestion to improve this website or boto3? Give us feedback.

Quickstart

A Sample Tutorial

Code Examples
Developer Guide
Security
Available Services
Core References

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Customization References

Boto3 documentation

You use the AWS SDK for Python (Boto3) to create, configure, and manage AWS services, such as Amazon Elastic Compute Cloud (Amazon EC2) and Amazon Simple Storage Service (Amazon S3). The SDK provides an object-oriented API as well as low-level access to AWS services.

Note

Documentation and developers tend to refer to the AWS SDK for Python as "Boto3," and this documentation often does so as well.

Quickstart

- Quickstart
 - Installation
 - Configuration
 - Using Boto3
- A Sample Tutorial
- ∘ SQS
- Creating a queue
- Using an existing queue
- Sending messages
- Processing messages
- Code Examples
 - Amazon CloudWatch examples
- Amazon DynamoDB
- Amazon EC2 examples
- AWS Identity and Access Management examples
- AWS Key Management Service (AWS KMS) examples
- Amazon S3 examples
- AWS Secrets Manager
- Amazon SES examples
- Amazon SQS examples

https://boto3.amazonaws.com/v1/documentation/api/latest/index.html

#!/usr/bin/env python

Run Textract on the DWR 1901 sample image

import pickle
import boto3
import json

Load the jpeg
with open("../../samples/Farragut-DD-348-1942-01-0021.jpg",'rb') as jf:
 ie=jf.read()

Analyze the document

Save the resulting JSON
pickle.dump(response, open("detection.pkl", "wb"))
with open('detection.txt', 'w') as file:
 file.write(json.dumps(response,indent=4))

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Liverpool	1	38	35	E	2	4	nu	-	2
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Dover		39	38	ESE	9	9	0	-	8
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B.—Barometer corrected and reduced to 32° at mean asa level: each ten fost, of vertical rise, causing about one hundredit of an inch dissinution; and each ten degrees, above 32°, causing nearly three hundredits increase. E.-Exposed thermometer in sincle. M.—Moistened bulk (for evaporation and dew point). D.—Direction of wind (true-two points 14/16 of magnetic). F.—Force (1 to 12-estimated). C.—Cloud (1 to 9). I.—Initials: b.—blue sky; c.—clouds (datached); <u>f.—for</u>; b.—lini: I.—lightning; (m.—mixty (hung); c.—oversets (dul); r.—rait; s.=mowy; <u>t.</u>.—thunder.[S.—Sea-disturbance (1 to 9). P.—Wet, rain-fall, or mow, or hall, since last report, in inches and decimals. Z.—Calm.

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Leith	30.21	40	37	E	1	7	0		1	
Berwick	30.23	43	39	ESE	2	9	0		4	
Ardrossan	30.24	38	36	E	3	8	0		3	
Portrush	30.22	38	36	E	1	b	0		1	
Galway	30.09	40	38	NE	2	8	а	-	1	
Shields	30:20	39	36	E	3	5	4	-	3	
Searborough	30.14	39	35	E	4	8	r	-	5	
Heligoland	30.10	34	33	ENE	3	2	b	-	3	
Liverpool	30.16	38	35	Е	2	У	nu	-	2	
Queenstown	30.00	44	43	ESE	4	y	0	-	2	
Valentia	29.99	42	39	E	3	4	с	-	2	
Yarmouth	30.08	39	3b	ENE	b	5	С	-	b	
London	30.04	40	34	ESE	5	9	0	-		
Dover	30.01	39	38	ESE	9	9	D	-	8	
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Helder	30.06	35		ENE	3	5	С	-	5	
Brest	29.82	42	-	E	1	9	W	-	1	
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Explanation.

B. J-Barometer corrected and reduced to 32° at mean sea level: each ten feet, of vertical rise, causing about one hundredth of an Inch diminution; and each ten degrees; above 32°, causing nearly three hundredths increase. E. -Exposed thermometer in shade. M-Moistened bulb (for evaporation and dew point). D-Direction of wind (true-two points left of magnetic). F-Force (1 to 12 estimated). -Cloud (it to 9). I. Initials: -blue sky: -c-clouds (detached) I-f.og. halt; 1.-Inighting; m-misty (hazy): 0-overcast (dull): r-rain; 8-snow; t-thunder.S-Sea-disturbance (1 to 9). A Wat rain-fail, or snow, or hall, since last report, in inches and decimals -Calm.

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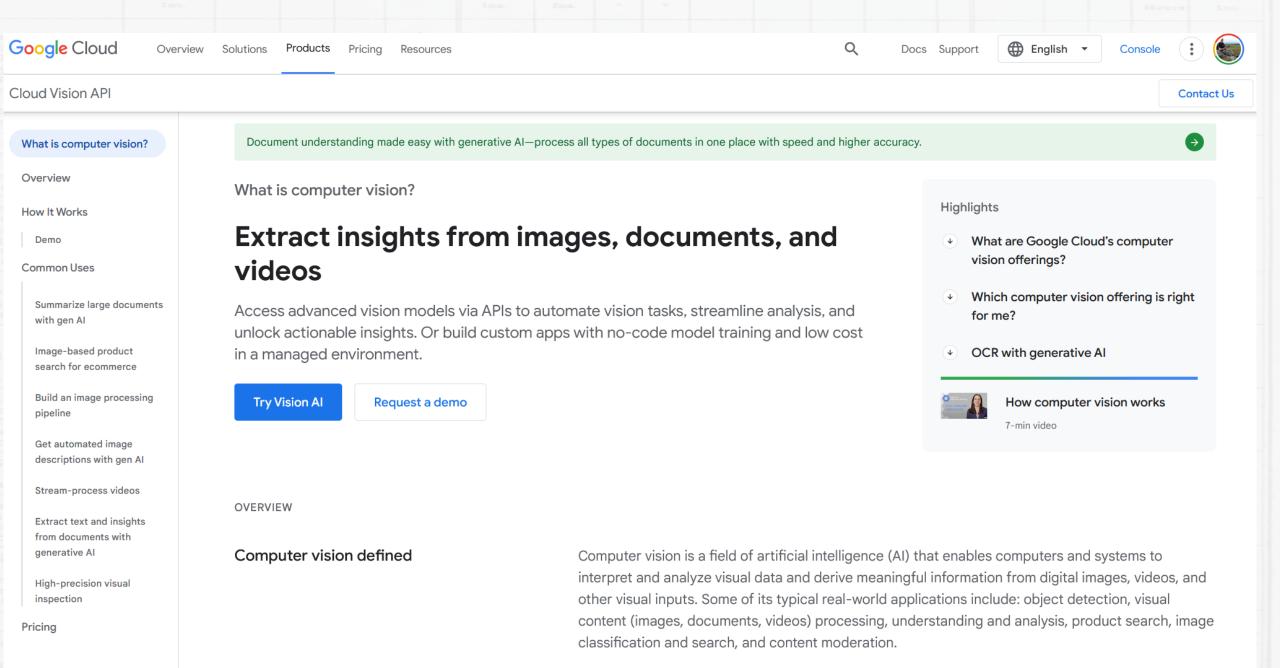
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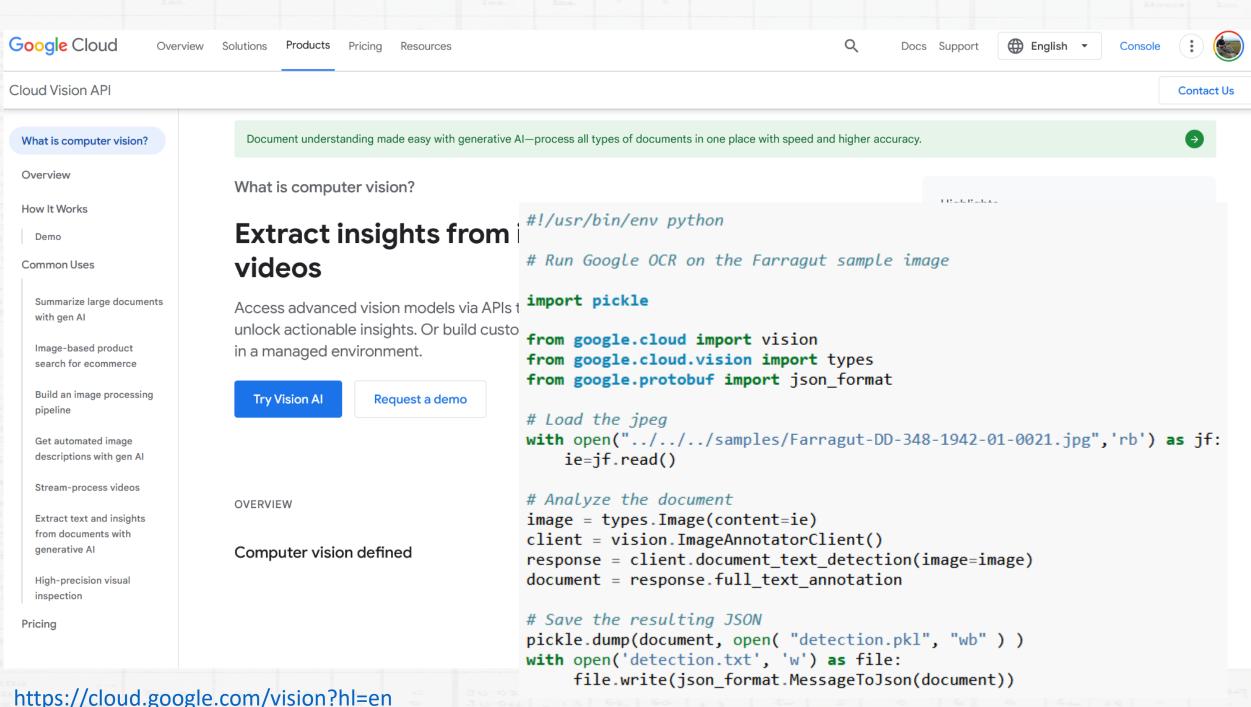
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for mobile apps and desktop software

Explain why popcorn pops to a kid who loves watching it in the microwave Suggest fun activities for a family visiting San Francisco

Recommend a dish to bring to a potluck

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transcribe the contents for you.

I need to transcribe some historical weather records from a photo of an old document. Can you do

Yes, I can help you with that. Please upload the photo of the historical weather records, and I will

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The document is a log page from the United States Ship Farragut (348), dated Thursday, 8 January 1942, during its passage in the Hawaiian area. The log includes detailed recordings of weather conditions, including wind, barometer readings, temperature, clouds, and sea conditions, recorded hourly from 4 A.M. to 4 P.M. It also contains details on the ship's course, speed, and position at various times.

The left section of the document contains navigation details such as latitude and longitude at different times, as well as information about the ship's draft before and after entering a port and data related to the ship's magnetic compass.

The right section of the document includes DRILLS AND EXERCISES, with records for morning and afternoon sessions, and data on fuel and water (distilled) received, expended, and on hand.

At the bottom, there's a section labeled "SUBMERGED RUN DATA—SUBMARINES" with fields for Run No. (Serial), Time to submerge, and Greatest depth, though this part appears to be blank.

This document is a typical naval logbook page from the World War II era, detailing daily operational conditions and the ship's performance.

I will now proceed to transcribe the key details from this historical weather record.

WEATHER RECORDINGS (4 A.M. to 4 P.M.)

- Wind: SW direction for all entries, varying intensity from 3 to 6 knots.
- * Barometer: Ranges from 2992 to 2996 at different times.
- Temperature: Air temperature fluctuates between 75 and 76 degrees Fahrenheit, with sea temperature constant at 74 degrees Fahrenheit.
- Clouds: Predominantly bc (Broken Clouds) and cu (Cumulus) with occasional ciu (Cirrocumulus) and a few instances of stcu (Stratocumulus).
- Sea: SW swell, varying force from 1 to 5.

NAVIGATIONAL DETAILS

- Latitude and Longitude recorded at different times, indicating the ship's movement.
- Compass Error: H.O. No. 2139; Variation 11°-30'E; Deviation 2°W.

DRILLS AND EXERCISES

- Received and expended fuel and water statistics.
- Division drills conducted in the morning and afternoon.

SUBMERGED RUN DATA - SUBMARINES

• No entries for this date.

(Note: This transcription focuses on the key details provided in the visible sections of the document.)

LOG OF THE UNITED STATES SHIP FARRAGUT (348)

- Date: Thursday 8 January 1942
- Area: Hawaiian area
- Commander: G.F. HUNGER, U.S. Navy, Commanding

If you need more detailed transcription of any specific section, please let me know!

ChatGPT

The document is a log page from the United States Ship Farragut (348), dated Thursday, 8 January 1942, during its passage in the Hawaiian area. The log includes detailed recordings of weather conditions, including wind, barometer readings, temperature, clouds, and sea conditions, recorded hourly from 4 A.M. to 4 P.M. It also contains details on the ship's course, speed, and position at various times.

The left section of the document contains navigation details such as latitude and longitude at different times, as well as information about the ship's draft before and after entering a port and data related to the ship's magnetic compass.

The right section of the document includes DRILLS AND EXERCISES, with records for morning and afternoon sessions, and data on fuel and water (distilled) received, expended, and on hand.

At the bottom, there's a section labeled "SUBMERGED RUN DATA—SUBMARINES" with fields for Run No. (Serial), Time to submerge, and Greatest depth, though this part appears to be blank.

This document is a typical naval logbook page from the World War II era, detailing daily operational conditions and the ship's performance.

I will now proceed to transcribe the key details from this historical weather record.

WEATHER RECORDINGS (4 A.M. to 4 P.M.)

• Wind: SW direction for all entries, varying intensity from 3 to 6 knots.

Barometer: Ranges from 2992 to 2996 at different times.

- Temperature: Air temperature fluctuates between 75 and 76 degrees Fahrenheit, with sea temperature constant at 74 degrees Fahrenheit.
- Clouds: Predominantly bc (Broken Clouds) and cu (Cumulus) with occasional ciu (Cirrocumulus) and a few instances of stcu (Stratocumulus).
- Sea: SW swell, varying force from 1 to 5.

NAVIGATIONAL DETAILS

- Latitude and Longitude recorded at different times, indicating the ship's movement.
- Compass Error: H.O. No. 2139; Variation 11°-30'E; Deviation 2°W.

DRILLS AND EXERCISES

- Received and expended fuel and water statistics.
- Division drills conducted in the morning and afternoon.

SUBMERGED RUN DATA - SUBMARINES

• No entries for this date.

(Note: This transcription focuses on the key details provided in the visible sections of the document.)

LOG OF THE UNITED STATES SHIP FARRAGUT (348)

- Date: Thursday 8 January 1942
- Area: Hawaiian area
- Commander: G.F. HUNGER, U.S. Navy, Commanding

If you need more detailed transcription of any specific section, please let me know!

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If you need more detailed transcription of any specific section, please let me know!

🦢 You

Where is the ship?

ChatGPT

Based on the log, the positions of the United States Ship Farragut on Thursday, 8 January 1942, can be identified by the latitude and longitude entries provided:

- 1. Morning position (assumed at the start of the log):
 - Latitude: 22° 17' 15" N
 - Longitude: 158° 25' 00" W
- 2. Noon position:
 - Latitude: 22° 58' 30" N
 - Longitude: 157° 30' 00" W
- 3. Afternoon position (presumably towards the end of the log):
 - Latitude: 23° 12' 00" N
 - Longitude: 156° 57' 00" W

These coordinates suggest that the ship was operating in the Pacific Ocean, specifically in the vicinity of the Hawaiian Islands, moving in a general northwesterly direction based on the change in latitude and longitude from morning to afternoon.

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🔵 You

Give me a table of all the observed pressures

ChatGPT

Sure, here is the table listing all the observed barometric pressures from the log of the United States Ship Farragut on Thursday, 8 January 1942:

Time (A.M.)	Barometer (inHg)
4:00	29.92
5:00	29.91
6:00	29.92
7:00	29.92
8:00	29.92
9:00	29.96
10:00	29.97
11:00	29.99
12:00	30.00
Time (P.M.)	Barometer (inHg)
1:00	29.94
2:00	29.90
3:00	29.91
4:00	29.92

This table covers the 12-hour span from 4 A \checkmark o 4 P.M. as logged.

🔵 You

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This table covers the 12-hour span from 4 A \checkmark 0 4 P.M. as logged.

		Hours	lm

Using Tech Giants for Data Rescue?			It does cost \$, but not much (typically \$15/1000 pages).				
They're <i>so close</i> !							0 01 0 25 0 34 0 60
But error rates still too high to use naively.							0 4 8 0 1 2 0 1 2 0 1 2 0 1 2 0 2 0 2 0 20
And beware of hallucinated numbers.							0:13 0:28 0:26
Do try – there's real power there already.							0 16 0 16 0 20 0 20 0 20 0 20 0 20 0 20 0 20 0 2
Try everything: Textract, Google vision, ChatGPT, Claud, Gemini, Some have custom training options.							0-20 0-12 0-16 0-08 0-51
Should we be building our own deep learning models?							0 51 0 04 - 0 47 0 04 0 04
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