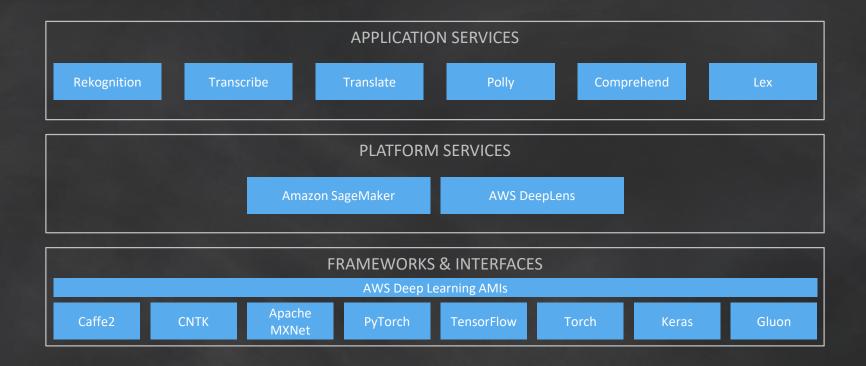
Automate for Efficiency with Amazon Transcribe & Amazon Translate

Hira, Niranjan AWS Solutions Architect



The Amazon machine learning stack



Amazon Transcribe

Automatic speech recognition



Multiple languages



Intelligent punctuation and formatting



Timestamp generation



Support for telephony audio



Recognize multiple speakers



Custom vocabulary

Amazon Translate

Natural and fluent language translation (based on neural networks)



Real-time translation



Batch analysis



Automatic language recognition



Low cost

Amazon Comprehend

Natural language processing



Common Use Cases for Language Services









Customer Service/ Call Centers



Semantic Search



Accessibility



Enterprise Digital Assistant



Captioning Workflows



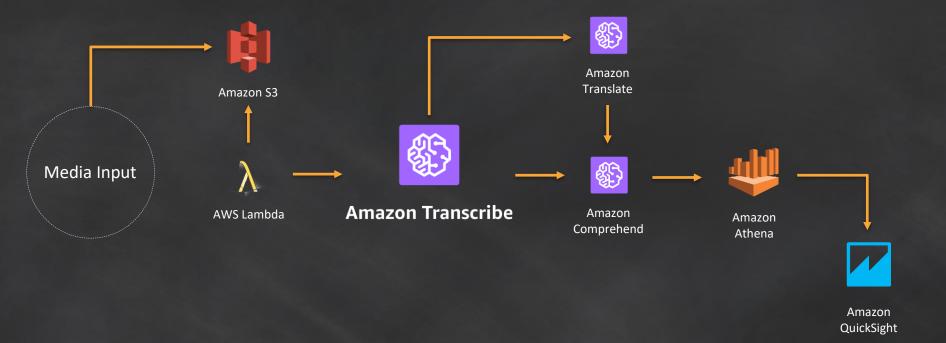
Information Bots





Localization

Typical pipeline





Demo – Amazon Transcribe & Amazon Comprehend



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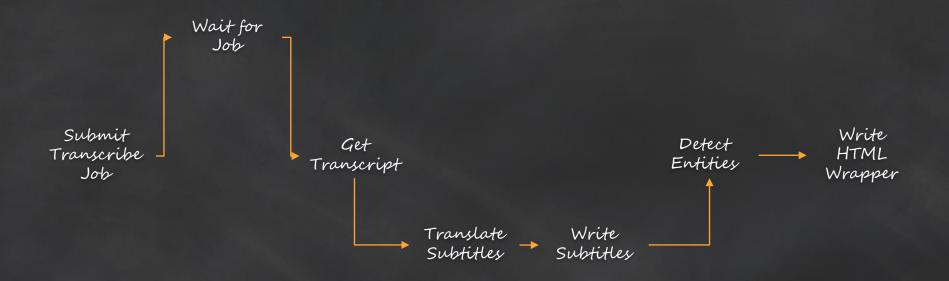
[00:00:00,000]	You're listening to the six o'clock news podcast from BBC	Entity	Туре	Max Confidence	ount
[00:00:03,600]	radio four labor	Friday	DATE	1	2
[00:00:06,870] [00:00:10,130]	has said it backs remaining in a customs union with you	Last night	DATE	0.98	1
[00:00:10,130]	after Brexit, in a policy shift ahead of major speeches this week by both jeremy corbyn on theresa may,	Saturday	DATE	1	1
[00:00:17,030]	the winter olympics in South Korea have ended after sixteen	few months after	DATE	0.99	1
[00:00:20,130]	days of sporting and political drama.	last week	DATE	1	1
[00:00:23,530]	Clashes between Syrian government and rebel forces have intensified	late last year	DATE	0.68	1
[00:00:27,120]	around eastern ghouta, a day after the UN demanded a cease	mid week	DATE	1	1
[00:00:30,410]	fire.	next month	DATE	0.88	1
[00:00:31,880]	China's communist party has announced plans that would allow president	past week	DATE	1	2
[00:00:35,080]	xi jinping to stay in power indefinitely.	six o'clock	DATE	1	2
[00:00:40,370]	The shadow Brexit secretary secure starmer has confirmed	this week	DATE	0.96	2
[00:00:43,450]	that labor wants the UK to remain in a customs union	today	DATE	1	1
[00:00:46,470]	with EU after Brexit. The labour leader jeremy	tomorrow	DATE	1	2
[00:00:49,750]	corbyn is to set out the party's new position in a speech tomorrow.	yesterday morning	DATE	1	1
[00:00:53,590]	The government is committed to leaving both the single market and the customs	Brexit	EVENT	1	14
[00:00:57,020]	union, but a number of conservative mps have said they're ready	Britain	LOCATION	1	2
[00:01:00,110]	to vote with labor to keep Britain in a customs union.	British	LOCATION	1	1
[00:01:03,840]	The international trade secretary, liam fox, has urged them	China	LOCATION	1	8
[00:01:06,950]	to keep an open mind, suggesting that the prime minister would	Europe	LOCATION	1	1
[00:01:09,960] [00:01:13,250]	deal with a lot of their concerns when she makes a speech later this week. Here's, our political correspondent, emma body,	European	LOCATION	1	1
[00:01:17,240]	after months of uncertainty about labor's position,	French	LOCATION	1	3
[00:01:20,320]	the party is now moving decisively away from a so called	German	LOCATION	0.97	2
[00:01:23,570]	hard Brexit speaking on the andrew marr show circus	Iran	LOCATION	0.92	1
[00:01:27,040]	starmer said jeremy corbyn would announce tomorrow that	Iraq	LOCATION	1	2
[00:01:30,120]	a labour government's policy would be to negotiate a new	North Korea	LOCATION	1	2
[00:01:33,150]	customs union with you we've long championed	North Korean	LOCATION	0.9	2
[00:01:36,590]	being in a customs union with the you and the benefits of that	North korean	LOCATION	0.99	1
[00:01:40,080]	obviously it's the only way realistically to get tire free access	Northern Ireland	LOCATION	1	2
[00:01:43,400]	it's really important for our manufacturing base on dh nobody	South Korea	LOCATION	1	3
[00:01:46,800]	can ask the question how you keep your commitment to know how border in	South Korean	LOCATION	1	1

Amazon Translate

```
Translate.translateText({
"Text": 'Hello world',
"SourceLanguageCode": 'en',
"TargetLanguageCode": 'es'
}, function(err, data) { ... });
```



Demo – Mix in Amazon Translate





This is the BBC news and these other headlines. Politicians in the
United States in Europe are summoning executives from
facebook to answer questions about whether personal data
was misused to manipulate it. The recent elections,
facebookers said it was deceived by a British company, cambridge
analytica, that worked for president. Trump's election campaign,
among others. Emergency services in texas, a and
essentially device that went off in the city of austin, was not
related to a series of explosions this month. However,
the FBI has confirmed that two packages found it separates
a fedex delivery. Officers in the area on Tuesday
are connected to the earlier attacks.
A BBC investigation has found that girls from the and mars
arranger muslim minority who fled violence in their home
country on being trafficked into prostitution in
Bangladesh, hundreds of thousands of revenge and now live in huge
refugee camps where they're vulnerable to sexual exploitation.

Entity	Туре	Max Confidence		
Tuesday	DATE		1	1
this month	DATE	0.97		1
Bangladesh	LOCATION		1	1
British	LOCATION	0.58		1
Europe	LOCATION	1		1
United States	LOCATION	0.99		1
austin	LOCATION	0.95		1
texas	LOCATION	0.99 0.97		1
BBC	ORGANIZATION			2
FBI	ORGANIZATION		1	1
cambridge analytica	ORGANIZATION		0.69	1
facebook	ORGANIZATION		0.99	1
fedex	ORGANIZATION		0.75	1
muslim	ORGANIZATION		0.59	1
Trump	PERSON		1	1
Index	Avg. Confidence	Terms	Unsu	re
00:00:05,410	0	.88	17	2
00:00:10 440	0	91	25	2

What does the HTML look like?



What is WebVTT?

- Web Video Text Tracks format
- https://www.w3.org/TR/webvtt1/
- "Borrows" from SRT (SubRip Subtitles)

```
1. 2
```

- 2. 00:00:08.490 --> 00:00:11.000
- 3. Europa están convocando a ejecutivos de
- 4. facebook
- 5.
- 6. 3
- 7. 00:00:11.590 --> 00:00:14.000
- 3. para responder preguntas sobre si los
- 9. datos





Everything and Anything Startups Need to Get Started on AWS

aws.amazon.com/activate