

Knowledge Transfer Virtual Workshops

Improve your business operations by enabling a SAP Conversational AI chatbot

Build a chatbot from scratch consuming an external service with SAP Conversational AI

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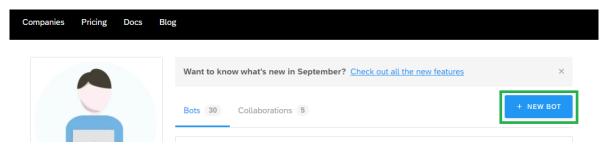
Build a chatbot from scratch consuming an external service with SAP Conversational AI

Prerequisites:

• Have an SAP Conversational AI account or trial account.

Let's start now 😊

• Create a new bot.



- Select Perform Actions and Greetings as the predefined skill for your bot.
- Give the bot a name, in my case I'll put *bestrunbot*.

<complex-block>

- Add a **description** and **topics** if you want to.
- Select **English** as the language.
- Select Non-personal in the Data Policy.
- Store the conversation data and,
- Select Non-vulnerable.
- Make your bot **Public** or **Private** as you wish.

Then click on **Create a bot.**



Now make sure you're in the **Intents** tan inside the **Train** tab. Let's **create an Intent** for Categories available with Products for sale.

Intents Entities		
WHAT'S AN INTENT?		
Search and fork an intent from the community	Q SEARCH	+ CREATE
★ TIPS Hey there! I can help you to improve your bot, please follow the instructions to train your bot well!		→

• Give the intent a name, I'm naming it: categoriesforsale and create it.

majo / bestrunbot		ite your intent	
Your intent description(1	
	nfidence score strictly greater than th hing strictness between 50 and 80.	e matching strictness is kept and returne	ed in the JSON. Our
		e matching strictness is kept and returne 50 0	ed in the JSON. Our 100 Reset to default matching strictness

• Add the following expression: See Categories for Sale.

bestrunbot / intents / @categoriesforsale

No description provided 🧷

★ TIPS Hey there! I can help you to improve your bot, please follow the instructions to train your bot well!	\rightarrow
+ ADD LANGUAGE	
Add an expression	IMPORT A CSV FILE
You have 2 expressions suggested to enrich your intent	~
All	1
See Categories for Sale	/ ~ 1

Intent settings

Now let's go to the **Entities** tab. You can go back to the previous tab or click again or click in the **Train** tab.

•	Create a Restricted	entity and	give the	name of	category.
---	---------------------	------------	----------	---------	-----------

		HOW DO CUSTOM ENTITIES WORK
Restricted entity Useful if you have a strict list of words to detect and don't need automatic detection of entity.		Free entity Useful if you don't have a strict list of values and want machine learning to detect all possible values.
rPIZZA cheese calzone	or	
detected entity with a confidence score strictly greater than the ecommendation is a matching strictness between 50 and 70.	matching strictne	

- Enter your entity just created and add the following categories as values:
 - o Food
 - Beverages
 - Electronics

bestrunbot / entities / #CATEGORY RESTRICTED		
		Entity settings
★ TIPS Hey there! I can help you to improve your bot, please follow the instructions to	o train your bot well!	÷
List of values Tagged values Enrichments		
Your entity training How DOES IT WORK?		
Here, you can add entity values to improve the detection of your custom entity.		
*		
Search		٩
List of values case-insensitive		20 per page V
Add a new entity value	FETCH VIA SERVICE API	IMPORT A CSV FILE
		Ŵ
electronics		I 🗑
beverages		Ø Ū
food		1 🗑

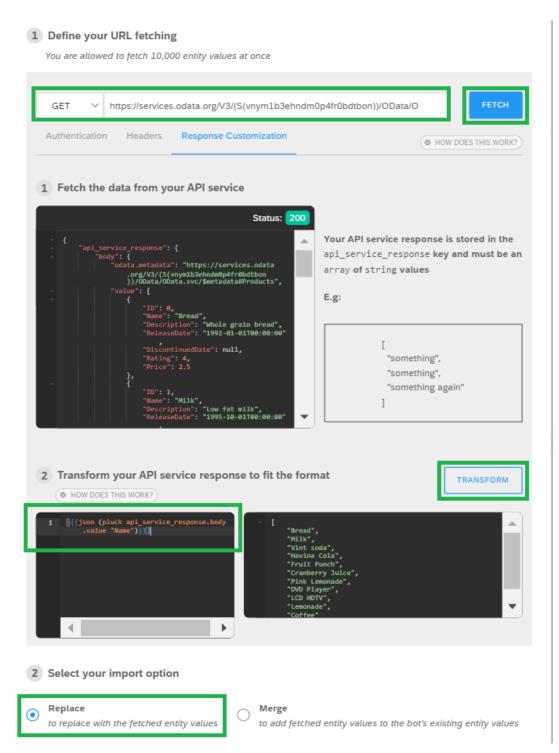
Let's create another entity for products, but in this case, we are going to fetch the data from an external API service.

- Go back to Entities and click on create a new one.
- Put **product** as the name and select the **restricted** option.
- Click on Fetch via service API.

List of values case-insensitive		20 per page	\sim
Add a new entity value	FETCH VIA SERVICE API	IMPORT A CSV FILE	

- Select GET and paste the following endpoint: <u>https://services.odata.org/V3/(S(vnym1b3ehndm0p4fr0bdtbon))/OData/OData.svc/Produ</u> <u>cts/?\$format=json</u> (this is a public OData service, if you want to explore it, feel free ⁽¹⁾)
- Click on Fetch

- And in the second step change the script with the following: {{{json (pluck api_service_response.body.value 'Name')}}}
- Click now in **transform** to see the values we are going to import.
- In the import option, select **replace**.
- Then, click on import.



You should be able to see the values imported like this:

bestrunbot / entities / #PRODUCTS RESTRICTED		< F(
		③ Entity se	ettings
★ TIPS Hey there! I can help you to improve your bot, please follow the instructions to	o train your bot well!	\rightarrow	
List of values Enrichments			
Your entity training HOW DOES IT WORK? Here, you can add entity values to improve the detection of your custom entity.			
Search			٩
List of values case-insensitive		20 per page	\sim
Add a new entity value	FETCH VIA SERVICE API	IMPORT A CSV FILE	E
□ ~			Ū
bread		ľ	Ŵ
coffee		ı	ŵ
cranberry juice		ı	ŵ
dvd player		ľ	Ŵ
fruit punch		ı	Ē
lavina cola		ľ	Ŵ
lcd hdtv		ľ	Ŵ
emonade		Û	Ŵ
		II.	ŵ

Now let's build the skills of the bot.

• Click on the **Build** tab and **Add a skill**

	majo / bestrunbot DEVELOPMENT v1 V1
	Train Build Connect Monitor
Add « Add • • • • • • • • • • • • • • • • • •	
+ + + + + + + + + + + + + + + + + + +	
Add skill group	
C Add template	

- Give the skill a name, I'm naming it **forsale.**
- Select a **Business** skill and create it.

×	Add Skill
	Name forsale 248 ex. book-flight, checkout
	Type Business Floating Business skills reflect the core purpose of your bot.
	Activation C Your skill is active. If you deactivate it, your bot will no longer use it when chatting.
	Title Your bot automatically uses this skill title when disambiguating during chat. If you don't specify one, your bot will display: forsale
	Type a short title for this skill's quick reply button
	Cancel

You'll see your skill created like this:

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Add 《	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	++++	++	-		- +	+	+	+	+	+	+	+	Í.	++	++	++	++	+	++	++	++	++	++
+ Add skill	+										000		L	+	+	+	+	+	+	+	+	+	+
A	+		÷	•		fo	rsa	le					L	+	+	+	+	+	+	+	+	+	+
🌾 Add skill group	+++++						-		-	-	9	2	L	+	+	+	+	+	+	+	+	+	+
[]- Add template	+	+	+	+ +	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+
	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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Now click on it and go to the **Triggers** tab.

• Add the categories for sale intent as a trigger for this skill.

bestrunbot / forsale 🥒 BUSINESS 🗸 🛞	₹FORK
README.md Triggers Requirements Actions	
The skill will be triggered only if:	
	HOW DO TRIGGERS WORK?
If @categoriesforsale is-present 🗑 +	

Now let's go to the **Requirements** tab and,

- Add **category** as entity and give it the same name to save it in the memory.
- Click on *if #category is missing* to add a custom message fetching data from an external service.

bestrunbot / for	sale 🧷 🖪	USINESS 🗡 💮	
README.md	Triggers	Requirements	Actions

REQUIRED INFORMATION The skill requires this information before executing Actions (© WHAT'S A REQUIREMENT?)

	#categor	y	as	category	^
+ NE	W REPLIES	If #categor	y is complete		
+ NE	W REPLIES	If #categor	y is missing		

- Select Connect External Service.
- And select **Consume API Service.**

Connect	t to an external system		
দ্ব send message		→ UPDATE CONVERSATION]
	CALL WEBHOOK		
	CONSUME API SERVICE		
			Back

- Select a **GET** operation.
- Copy and paste this API endpoint: <u>https://services.odata.org/V3/(S(vnym1b3ehndm0p4fr0bdtbon))/OData/OData.svc/Categories/?\$format=json</u>

API Service Configuration	
GET V https://services.odata.org/V3/(S(vnym1b3ehr	ndm0p4fr0bdtbon))/OData/OData.svc/f
Authentication Headers Response	HOW DOES THIS WORK?
No authentication	
=	Î
♀ SEND MESSAGE	8 FALLBACK
→ UPDATE CONVERSATION	
	Bac

• Let's add a Script for a Custom Message.

API Service Configuration										
GET V https://services.odata.org/V3/(S(vnym1b3ehndm0p4fr0bdtbon))/OData/OData.svc/F										
Authenticatior	Headers	Response			O HOW	DOES THIS WORK?				
No authenticat	ion	~				Ŵ				
Text	Card	Buttons	Quick Replies	Carousel	List	image				
			_	.;}} t Data						

- Select the Message Type as Buttons and,
- Add the following script:

```
{
  "type": "buttons",
  "delay": "",
  "content": {
    "title": " Please select the category you are interested in!",
    "buttons": [
    {{#eachJoin api_service_response.default.body.value}}
    {
        "title": "{{Name}}",
        "value": "{{Name}}",
        "type": "postback"
        }{{/eachJoin}}
    ]
    }
}
```

• And save it.

API Service Configuration									
GET V https://ser	vices.odata.org/V3/(S(vnym1b3ehndm0p4fr0bdtl	bon))/OData/OData.svc/(
Authentication Heade	ers Response	HOW DOES THIS WORK?							
No authentication	~	Ē							
=									
Message Type	Response Script	HOW DOES THIS WORK?							
Buttons × ∨	<pre>1 { 2 "type": "buttons", 3 "delay": "", 4 "content": { 5 "title": "Please select the category y 6 "buttons": [7 {{#eachJoin api_service_response.defau 8 { 9 "title": "{{Name}}", 10 "value": "{{Name}}", 11 "type": "postback" 12 }{{/eachJoin} 13] 14 } 15 } 16 </pre>								

Now let's add the product entity as a **new requirement** as we did with the category one.

Add a new requirement	e errors	Ŵ

Select **product** as the entity and put the same name on the right

AND	#category	as	category
	#product	as	product

• Open it and click on *if #product is missing*

We are going to repeat some steps:

- Select Connect External Service.
- And select Consume API Service.
- Select a **GET** operation.
- Copy and paste this API endpoint: <u>https://services.odata.org/V3/(S(vnym1b3ehndm0p4fr0bdtbon))/OData/OData.svc/Produ</u> <u>cts/?\$filter=%20Categories/any(Category:Category/Name%20eq%20%27{{memory.catego} ry.raw}}%27)&&\$format=json

 </u>
- Add a text message and paste the following script:

{{#if (length api_service_response.default.body.value)}} Here are {{pluralize 'product' quantity=(length api_service_response.default.body.value) }}. {{/if}}

Note: this is to customize the message if we have more than one result, so it can be shown as a plural response.

• Add a custom message, select List as the message type and paste the following json:

```
{"type": "list",
       "content": {
        "elements": [
         {{#eachJoin api_service_response.default.body.value}}
         {
          "title": "{{Name}}",
          "imageUrl": "",
          "subtitle": "$ {{Price}}",
          "buttons": [{
           "title": "{{Name}}",
           "value": "{{Name}}",
           "type": "postback"
          }]
         } {{/eachJoin}}
         ]
         }
         }
```

You should have it like this:

API Service Configuration	
GET V https://services.odata.org/V3/(S(vnym1b3ehndm0p4fr0bdtbon))/OData/OData.svc/F	P
Authentication Headers Response	S WORK?
No authentication	Ŵ
+ {{#if (length api_service_response.default.body.value)}} Here are {{pluralize 'product' quantity=(length api_service_response.default.body.value) }}. {{/if}}	ľ
Markdown syntax is disabled. ≡	Ŵ
Message Type Response Script	SAVE
List X V 1 {"type": "list", 2 content": { 3 "content": { 4 {{f#eachJoin api_service_response.default.body.value}} 5 { 6 { 7 title": "{{Name}}", 7 subtitle": "\$ {{Price}}", 9 { 10 **value": "\$ {{Name}}", 11 **value": "{{Name}}", 12 **vpe": "postback" 13 }] 14 } 15 } 18	
	•

Now let's add a new skill for the checkout process.

• Click on the **Build** tab

• Add a Business skill and name it checkout.

×	Add Skill	
	ne eckout	247
Busi	Floating	
	vation skill is active. If you deactivate it, your bot will no longer use it when chatting.	C
specif	oot automatically uses this skill title when disambiguating during chat. If you don't y one, your bot will display: <mark>checkout</mark>	
	Type a short title for this skill's quick reply button	
		_
	Cancel	Add

Move the skill by clicking in the cross and click it to train the skill:

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																			No	de	scr	ipti	on	pr	ovi	deo	d ,	ß				
																		4	Add	top	<u>pics</u>											
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- Go to the **Requirements** tab.
- Select the entity **Person** and put the same name to save it in the memory, we're going to ask for the user's full name.
- Click on *if #person is missing*.

bestrunbot / ch	neckout 🧷	BUSINESS 🗸 💮	
README.md	Triggers	Requirements	Actions

REQUIRED INFORMATION The skill requires this information before executing Actions (@ WHAT'S A REQUIREMENT?)

	#person	as	person	^
+ NE	WREPLIES	If # person is complete		_
+ NE	W REPLIES	If # person is missing		

- Click on send message.
- Select **Text** as message type and,
- Copy and paste the following: Could you please share with me your full name?
- Save it.

Could you please share with me your full name? 594	SAVE
Enable Markdown syntax Set a specific delay before sending next message	

Now let's do the same to ask the user his/her email and location (address). Important fact: as you could see we didn't create an entity for person, email and location. This is because they are golden entities already predefined in SAP Conversational AI, and there are tons more.

• Click on the plus "+" to add new requirements

#person	as	person	
+ NEW REPLIES	If # person is complete		
	If #person is missing		
Add a new requiremen	i u e errors		

After adding email and location as requirements for the checkout you should see them like this:

#person		as	person	~
#email		as	email	^
+ NEW REPLIES	If # email is comple	te		
+ NEW REPLIES	If # email is missing			
	handle errors			Ŵ
		as	location	- -
AND #location			location	- -
		plete	location	- -

Now let's put the questions for each of them.

- Click on *if #email is missing* and paste the following as a **text** message: And your email as well?
- Save it

- Click on *if #location is missing* and paste the following also as text message: Now I need your shipping address, could you please write it down?
- Save it.

Now let's go back to the **forsale** skill

- Click on the **Build** tab
- Click on the forsale skill
- Go to the Action tab inside the skill and,
- Click on Add new message group
- Now click on **send message**
- Select Buttons as your message type and,
- Copy and paste the following: You've selected this product {{memory.product.raw}} in your cart. To proceed with your purchase, click here to checkout.
- Click to add a button and select Trigger Skill

bestrunbot / forsale 🖉 BUSINESS 🗸 🛞	GFORK
README.md Triggers Requirements Act	ions
When all requirements are met, the bot sends:	(WHAT'S AN ACTION?
ADD CONDITION to trigger messages You've selected this product {{memory.product.raw}} in your cart. To proceed with your purchase, click here to checkout.	SAVE
Link 3 Postback	
Set a specific Phone Number ng next messag	(e
Trigger Skill Default delay of up to 5s (with max. one decimal place)

- In the **button title** put: Go to checkout
- And select **checkout** as the skill to trigger

You've selected this product 520 {{memory.product.raw}} in your cart. To proceed with your purchase, click here to checkout.	
Go to checkout 66 👕	×
ADD A BUTTON 2	fallback
	greetings
Set a specific delay before sending next message	forsale
	checkout

Now let's complete for now the **checkout** skill. Let's go to the **Build** tab and click on the **checkout** skill.

										Т	raiı	n		В	uilo	i		С	onr	nec	t		Μ	oni	tor											
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								-																												

- Go to the Actions tab inside the checkout skill
- Click on add a new message group
- Select **text** as message type
- And paste the following:

Alright {{memory.person.raw}}, you've selected the product: {{memory.product.raw}}. We'll send you an email to {{memory.email.raw}} with the order confirmation which will be delivered to your shipping address: {{memory.location.formatted}}. Thank you for using BestRunMarket Bot! :)

bestrunbot / checkout 🥒 BUSINESS 🗡 🛞	- ≪FORK
README.md Triggers Requirements Actions	
When all requirements are met, the bot sends:	WHAT'S AN ACTION?
ADD CONDITION to trigger messages	
+ Alright {{memory.person.raw}}, you've selected the	I
product: {{memory.product.raw}}. We'll send you an email to {{memory.email.raw}} with the order confirmation which will be delivered to your shipping address: {{memory.location.formatted}}. Thank you	
for using BestRunMarket Bot! :)	

Note: We are going to leave the exercise 'til this point. However, you can use this an example on how to build a commercial bot and continue integrating it with a backend server app or external service such as a payment motor to charge the order to the customer.

Now let's add the intent for asking *categories for sale* in the greetings' skill. Let's go to the **Build** tab and click on the **greetings'** skill.

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Go to the **Actions** tab. Notice that this skill and these responses are already configured because at the beginning we selected greetings as a predefined skill for the bot.

• **Delete** all the responses, we're going to put a new one.

	₹FORK
README.md Triggers Requirements Actions	
When all requirements are met, the bot sends:	WHAT'S AN ACTION?
*	
If @greetings is-present 👕 +	
Hello :)	I
	Delete
Arkdown syntax is disabled by default.	Ū
• Click on send message and,	
• Select Card as message type.	
• Select Caru as message type.	
strunbot / greetings / FLOATING V ③	
	⊲ ‡FOR
Strunbot / greetings / FLOATING V ③	
strunbot / greetings 🥒 FLOATING \vee 🛞	WHAT'S AN ACTION
strunbot / greetings FLOATING README.md Triggers Requirements Actions en all requirements are met, the bot sends:	
strunbot / greetings FLOATING README.md Requirements Actions en all requirements are met, the bot sends: If @greetings is-present +	
strunbot / greetings FLOATING README.md Triggers Requirements Actions en all requirements are met, the bot sends:	
Strunbot / greetings README.md Triggers Requirements Actions een all requirements are met, the bot sends: If @greetings is-present Image: Im	
strunbot / greetings README.md Triggers Requirements Actions en all requirements are met, the bot sends: If @greetings is-present + Quick Quick Triggers If Ouick Quick Image: Control of the sender	(♥ WHAT'S AN ACTION
Strunbot / greetings README.md Triggers Requirements Actions en all requirements are met, the bot sends: If @greetings is-present I + + Outck	(
strunbot / greetings README.md Triggers Requirements Actions en all requirements are met, the bot sends: If @greetings is-present + Quick Quick Triggers If Ouick Quick Image: Control of the sender	(
Strunbot / greetings README.md Triggers Requirements Actions en all requirements are met, the bot sends: If @greetings is-present • + If @greetings is-pres	(

- As **image url**, put the following url with the BestRunMarket logo: <u>https://i.imgur.com/reQirgK.png</u>
- In the title put: Hello! Welcome to the BestRunMarket Bot!
- Subtitle: How may I help you?
- Click to add a button and select Trigger Skill

**		
lf +	@greetings is-present	
ſ		SAVE
	https://i.imgur.com/re	
	Ilo! Welcome to the BestRunMarket E 40 w may I help you? 61	
	Link 3	
Set	Postback a specific d g next message	
Jet	Phone Number	
Defa	ult delay of u Trigger Skill ne decimal place)	■ 10

- In the **button title** put: See Categories for Sale
- And select the **forsale** skill.

Now let's add another button:

• Click to add another button and select **Postback**

htt	ps://i.imgur.com/	re			
Hello! Welcon How may I hel	ne to the BestRu p you?	unMarke	t E 40 61		
See	Categories for Sa	ale	57 💼	forsale	×
	Link		2		
Set a specific d	Postback	d poyt p	2055200		
Set a specific d	Phone Number	g next n	nessage		
Default delay of ι	Trigger Skill	ne decima	al place)		

- In the **button title** and **Postback value** put the same: Ask for an Order Tracking (we're going to leave it 'til here, using the intent *see categories for sale* as the main intent for this exercise... however this is an example of how we can put more options for the user to select and interact with the bot).
- Save it.

	SAV
https://i.imgur.com/re	
Hello! Welcome to the BestRunMarket E 40 How may I help you? 61	
See Categories for Sale 57 📋	forsale ×
Ask for an Order Tracking 55 💼	Ask for an Order Tracking
ADD A BUTTON 1	

Now let's test the bot.

• Click on **Chat Preview**.



And test the bot as following:

Chat Preview Clear ⊕ Debug≫	-	Chat Preview	Clear ℗ Debug≫	-	Chat Preview	Clear 🕑 Debu	ug
Today 5:13 PM		Havina Cola \$ 19.9	Havina Cola	•		,	6
hello 🛞		Fruit Punch \$ 22.99	Fruit Punch		You've selected this product your cart. To proceed with yo to checkout.		е
Hello! Welcome to the BestRunMarket Bot!		Cranberry Juice \$ 22.8	Cranberry J		Go to checkout		
How may I help you?		Pink Lemonade \$ 18.8	Pink Lemon				(
Ask for an Order Tracking				•	Could you please share with	me your full name?	
See Categories for Sale		Lemonade \$ 1.01	Lemonade			Maria Martinez	0
Please select the category you are interested in!	ė	Coffee \$ 6.99	Coffee	ė	And your email as well?		
Food	•		Cranberry Juice		mariajose.	martinez@sap.com	(
Beverages		You've selected this produc	ct Cranberry Juice in	ė	Now I need your shipping address, could you please write it down?		
Electronics		your cart. To proceed with y to checkout.	our purchase, click here		Paseo de la Reforma 41	0, Juarez, 06600,	
Beverages 🛞	ė	Go to checkout			Ciudad de Mexico		(
Here are 8 products.			Go to checkout		Alright Maria Martinez, you'v Cranberry Juice. We'll send y mariajose.martinez@sap.co	ou an email to m with the order	t
Milk \$3.5		Could you please share with	n me your full name?	ė	confirmation which will be d shipping address: Av. Paseo Juárez, Cuauhtémoc, 06600 Mexico. Thank you for using	de la Reforma 410, Juárez, CDMX,)
Vint soda			Maria Martinez 👩				

To see the bot's memory, click on any yellow *i* in the conversation flow. For example, by clicking in the last one, you'll be able to see the whole entities saved in the bot's memory, like this:

_	Chat Preview Clear ♥ Debug ≫	
47	}	*
48],	
49 -	"conversation": {	
50	"id": "test-1601849579149",	
51	"language": "en",	
52 -	"memory": {	
53 -	"category": {	
54	"confidence": 0.99,	
55	"raw": "Beverages",	
56 57	"value": "beverages"	
58 -	}, "product": {	
59	"confidence": 0.99,	
60	"raw": "Cranberry Juice",	
61	"value": "cranberry juice"	
62	},	
63 -	"person": {	
64	"confidence": 0.99,	
65	"raw": "Maria Martinez",	
66	"fullname": "Maria Martinez"	
67	},	
68 -	"email": {	
69	"confidence": 0.99,	
70	"raw": "mariajose.martinez@sap.com",	
71	"domain": "sap.com",	
72	"tag": null,	
73	"local": "mariajose.martinez"	
74	},	
75 👻	"location": {	
76	"confidence": 0.55,	
77	"raw": "Paseo de la Reforma 410, Juarez,	
	06600, Ciudad de Mexico",	
78	"country": "mx",	
79	"lng": -99.17075919999999,	
80	"city": "Juárez",	
81	"formatted": "Av. Paseo de la Reforma 410	
	, Juárez, Cuauhtémoc, 06600 Juárez,	
82	CDMX, Mexico", "street_number": "410",	
83	"place": "ChIJiamSeUn_0YURot59vwT3Qts",	
84	"state": "CDMX",	
85	"type": "street_address",	
86	"postal code": "06600",	
87	"lat": 19.4249823,	
88	"street_name": "Av. Paseo de la Reforma"	
89	}	
90	},	
91	"skill": "checkout",	
92	"skill_occurences": 4,	
93	"skill_id": "5d659788-ca02-4810-bad8	
	-ed0ed02391fb"	
94	},	
95 -	"logs": {	
96	"input": "Paseo de la Reforma 410, Juarez,	
	06600, Ciudad de Mexico",	Ŧ
97 🔻	"logs". [

Hope you'd enjoyed this hands-on exercise! 😇