



Mycroft AI - The Open Source Privacy- Focused Voice Assistant

Development of an Event Finder Skill

by Christian Binkert, February 2022

Agenda

1. Problem
2. Solution
3. Technical Implementation



Problem

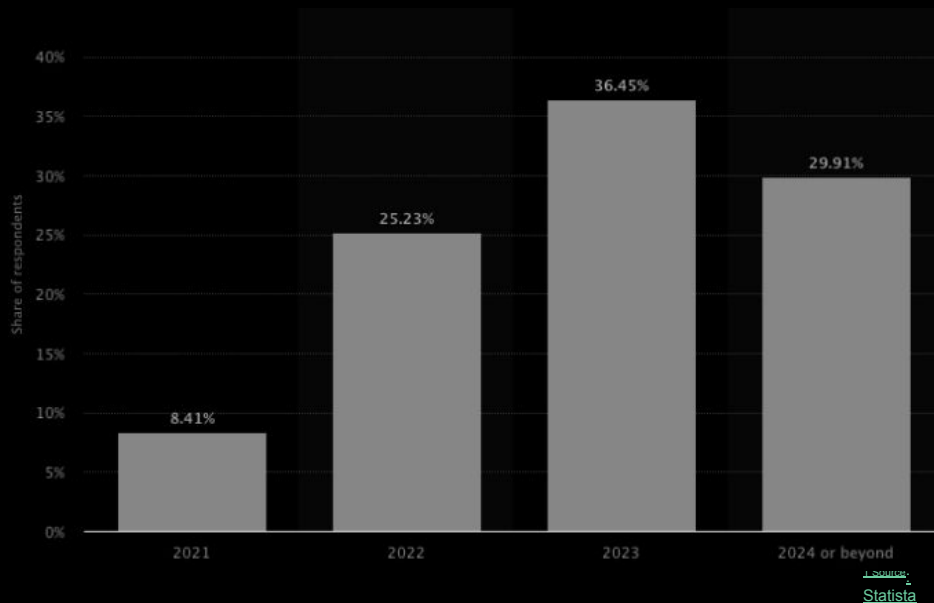


Massive, industry-wide cuts across the events industry with the Corona outbreak:

- Sport events
- Live concerts
- Trade fairs
- Private events like weddings, graduation ceremonies

Tough comeback after absolute ground zero, as one third expects business to recover in 2025.

Expected return to 100% pre-covid revenue



Solution



Introduction of the Event Finder Skill to:

- Provide an easy, state of the art possibility to find the current / upcoming / closest events that suit you by using the Mycroft voice-assistant.
- Thereby fostering the actual return and re-adoption of the society to well, just go out again.
- And eventually, helping the event industry to return faster to pre-covid revenue!

Potential “upside”:

- *“Popular Skills are popular because people use them frequently”¹* → The Event Finder Skill could be used weekly.
- Neither Mycroft nor Alexa provide that skill yet.

User:

“What events are taking place soon in stuttgart?”



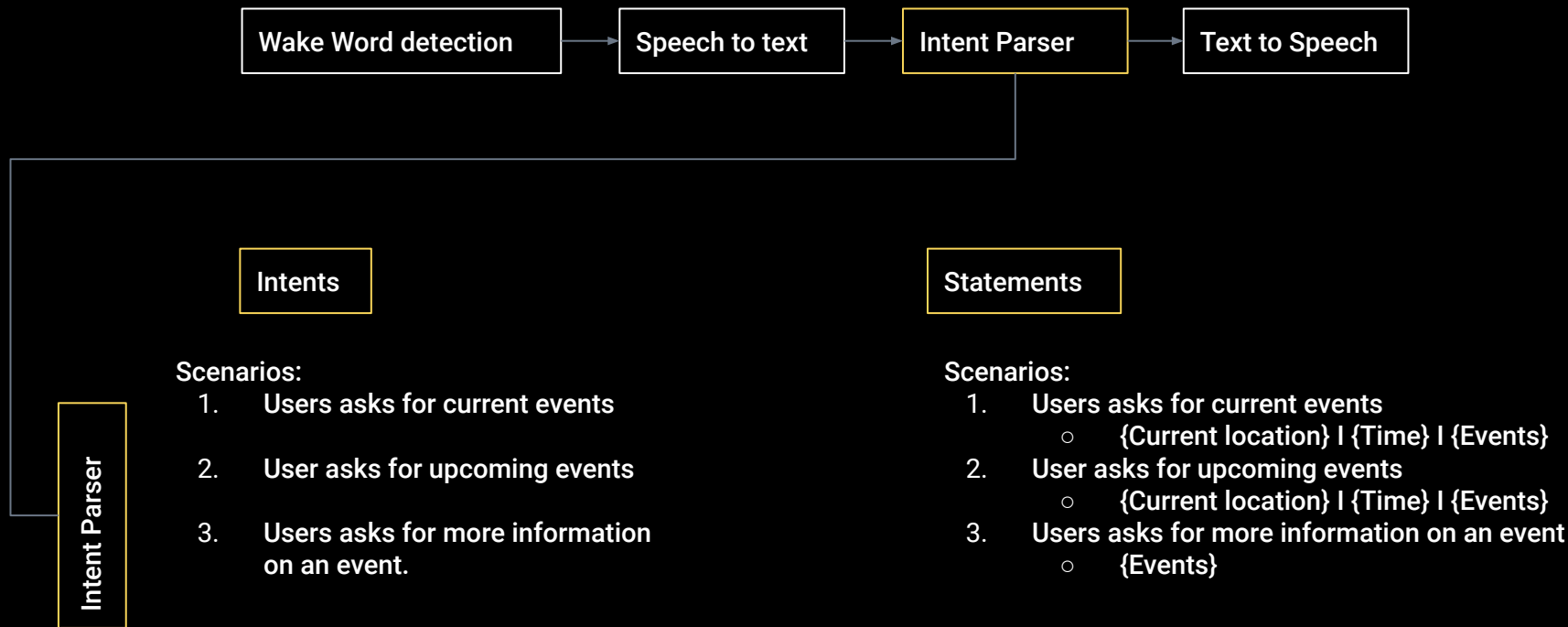
Mycroft:

“Helene Fischer will soon be in Stuttgart.” 🐶

Technical Implementation



Skill Type: Information





Technical Implementation

Skill Type: Information

Intents

- .voc
- .intent

Statements

- .dialog

Scenarios:

1. Users asks for current events
 - **event.voc: "events I activities"**
 - **date-time.voc: "today I later"**
2. User asks for upcoming events
 - **location.voc**
 - **date-time.voc "in the next days I weeks I months"**
 - **event.voc**
 - **forecast.voc**
3. Users asks for more information on an event.
 - **event.voc**

en-en

de-de

Scenarios:

1. Users asks for current events
 - o **daily-events-local.dialog: "Awesome {event-type} are held at {location} at {time}."**
2. User asks for upcoming events
 - o **weekly-events-local.dialog**
3. Users asks for more information on an event
 - o **extend-event-info.dialog**

Intent Parser



Technical Implementation

Skill Type: Information

Intents

Statements

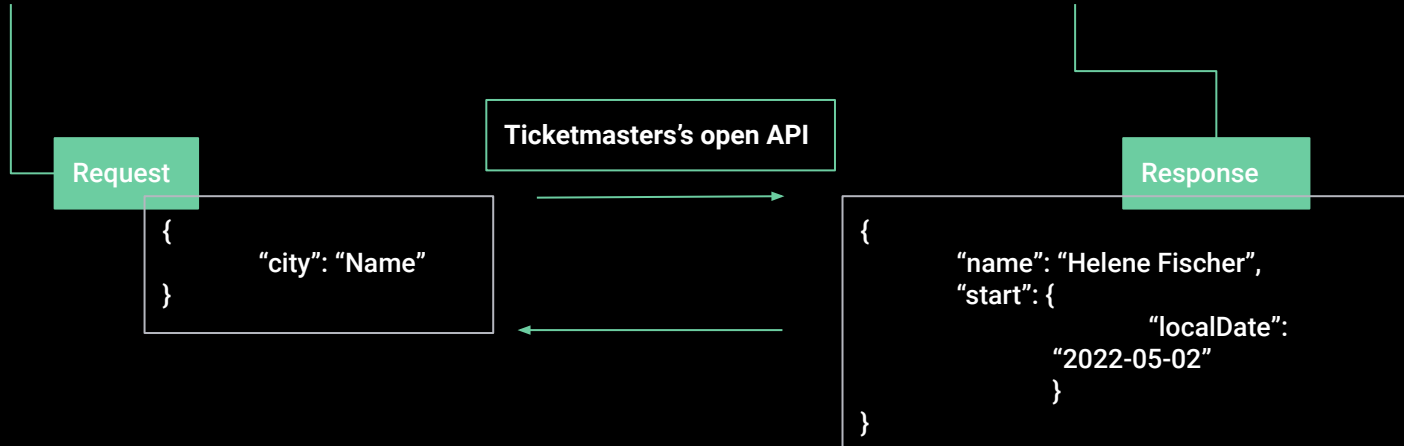
Intent Parser

Scenarios:

1. Users asks for current events
 - **location.voc**
 - **date-time.voc**
 - **event.voc**

Scenarios:

1. Users asks for current events
 - o **daily-events-local.dialog**





Skill Type: Information

Query parameters:

Parameter	Description	Type	Default Value
<code>id</code>	Filter entities by its id	String	
<code>keyword</code>	Keyword to search on	String	
<code>attractionId</code>	Filter by attraction id	String	
<code>venueId</code>	Filter by venue id	String	
<code>postalCode</code>	Filter by postal code / zipcode	String	
<code>latlong</code>	Filter events by latitude and longitude, this filter is deprecated and maybe removed in a future release, please use geoPoint instead	String	
<code>radius</code>	Radius of the area in which we want to search for events.	String	
<code>unit</code>	Unit of the radius	String enum: ["miles", "km"]	miles
<code>source</code>	Filter entities by its primary source name OR publishing source	String enum: ["ticketmaster", "universe", "frontgate"]	

<code>city</code>	Filter by city	Array
<code>countryCode</code>	Filter by country code	String
<code>stateCode</code>	Filter by state code	String
<code>classificationName</code>	Filter by classification name: name of any segment, genre, sub-genre, type, sub-type. Negative filtering is supported by using the following format '-'. Be aware that negative filters may cause decreased performance.	Array
<code>classificationId</code>	Filter by classification id: id of any segment, genre, sub-genre, type, sub-type. Negative filtering is supported by using the following format '-'. Be aware that negative filters may cause decreased performance.	Array
<code>dmaId</code>	Filter by dma id	String



Thank you!