

Task 2

Firstly created simple model with maths tool then added a weather api and web search api then also added a custom tool which can take input from user if there is any confusion. After that I created a model with shorter memory then I added summarization tool for the memory. I added prompts so the agent is capable of asking the user if any other help is needed at end and until the user says bye or no or something similar it continues. After that created a multi agent model using supervisor architecture.

1. Chatbot with basic math tools and Gemini model: Made using simply defining the arithmetic tools and bind them to the model and used gemini-2.0-flash model.
2. Model with weather API and can also counterquestion the user in case of any doubts: Added weather API and also added a **custom user_input** tool so asks the user in case of any doubt.
3. Model with Web search included and capable of counterquestioning: Added tavial api to search internet
4. Model with Memory included and capable of counterquestioning: Added inMemorysaver, now the model can store the interactions in memory and use for future interaction
5. Memory model with memory summarization: Added summarisation tool to limit memory usage. **Also now prompt such that now the model always asks the user if it can will something else at the end of output tell the user says no bye or something else**
6. Made a multi agent model using supervisor architecture from scratch : Added three agents of performing tasks of maths, web search and weather and connected them to supervisor using handoff tools

LIST OF CONVERSATIONS I HAVE DONE WITH MODELS

Chatbot with basic math tools and Gemini model

Interaction

===== Human Message =====

what is weather

===== Ai Message =====

Tool Calls:

user_input (4793e01d-02ca-44b5-9338-cc4e20fda134)

Call ID: 4793e01d-02ca-44b5-9338-cc4e20fda134

Args:

query: Could you please specify the location for which you want weather information?

===== Tool Message =====

Name: user_input

faridkot

===== Ai Message =====

Tool Calls:

run (910afc6e-63be-4f7d-a360-4376eca571af)

Call ID: 910afc6e-63be-4f7d-a360-4376eca571af

Args:

location: faridkot

===== Tool Message =====

Name: run

In faridkot, the current weather is as follows:

Detailed status: clear sky

Wind speed: 4.07 m/s, direction: 128°

Humidity: 40%

Temperature:

- Current: 29.97°C

- High: 29.97°C

- Low: 29.97°C

- Feels like: 29.65°C

Rain: {}

Heat index: None

Cloud cover: 0%

===== **Ai Message** =====

OK. The current weather in Faridkot is clear with a wind speed of 4.07 m/s from 128 degrees. The humidity is 40%, and the temperature is 29.97°C, feeling like 29.65°C. There is no rain and the cloud cover is 0%.

Model with weather API and can also
counterquestion the user in case of any
doubts

INTERACTION: after asking what is the weather the
model counterquestioned to specify the location:

===== **Human Message** =====

what is weather

===== **Ai Message** =====

Tool Calls:

user_input (4793e01d-02ca-44b5-9338-cc4e20fda134)

Call ID: 4793e01d-02ca-44b5-9338-cc4e20fda134

Args:

query: Could you please specify the location for which you want weather information?

===== **Tool Message** =====

Name: user_input

faridkot

===== **Ai Message** =====

Tool Calls:

run (910afc6e-63be-4f7d-a360-4376eca571af)

Call ID: 910afc6e-63be-4f7d-a360-4376eca571af

Args:

location: faridkot

===== Tool Message =====

Name: run

In faridkot, the current weather is as follows:

Detailed status: clear sky

Wind speed: 4.07 m/s, direction: 128°

Humidity: 40%

Temperature:

- Current: 29.97°C

- High: 29.97°C

- Low: 29.97°C

- Feels like: 29.65°C

Rain: {}

Heat index: None

Cloud cover: 0%

===== Ai Message =====

OK. The current weather in Faridkot is clear with a wind speed of 4.07 m/s from 128 degrees. The humidity is 40%, and the temperature is 29.97°C, feeling like 29.65°C. There is no rain and the cloud cover is 0%.

Model with Web search included and capable of counterquestioning

Interaction

Here are the latest trends in London, based on the search results:

1. **London Fashion Trends 2025:** Animal print jackets (especially leopard print) are expected to be popular in 2025. Also, keep an eye out for cardigans with contrast buttons.
2. **What to wear in London: the ultimate style guide:** London style is experimental, mixing prints and colors with classic looks. Layering necklaces are a dominant jewelry trend.
3. **The 8 Items That Defined London Street Style In 2024 | British Vogue:** Baggy jeans, track jackets, and suede bags.

Okay, I will share 3 results.

Result 1: The Simple White Cake Recipe from Allrecipes includes creaming sugar and butter, adding eggs and vanilla, combining flour and baking powder, and then adding milk. The batter is baked at 350 degrees F (175 degrees C) for 30-40 minutes.

Result 2: The Easy Birthday Cake Recipe From Scratch from Southern Plate involves creaming sugar and softened butter, mixing flour, baking powder, and salt separately, and combining vanilla, milk, and eggs in another bowl. Wet and dry ingredients are gradually added to the creamed butter.

Result 3: The Easy Vanilla Cake Recipe from Allrecipes mixes flour, sugar, baking powder, vanilla extract, and salt. Eggs, milk, and vegetable oil are added and mixed until smooth before baking in a greased and lined 9-inch cake tin at 350 degrees F (175 degrees C).

The weather in Delhi is thunderstorm with rain. The wind speed is 7.72 m/s, direction is 290 degrees, humidity is 94%, and the temperature is 22.05 degrees Celsius (feels like 22.77 degrees Celsius). The sum of 5 and 132 is 137.

Okay, is there anything I can help you with before you exit?

===== Human Message =====

Hi what is the weather

===== Ai Message =====

Tool Calls:

user_input (45741b8d-e45a-4a27-ba87-c50ebe157912)

Call ID: 45741b8d-e45a-4a27-ba87-c50ebe157912

Args:

query: Could you please specify the location for which you want weather information?

===== Tool Message =====

Name: user_input

Farid

===== Ai Message =====

Tool Calls:

run (d4701317-94b9-4c8a-9483-b73fc6d1fbb6)

Call ID: d4701317-94b9-4c8a-9483-b73fc6d1fbb6

Args:

location: Farid

===== Tool Message =====

Name: run

Error: NotFoundError('Unable to find the resource')

Please fix your mistakes.

===== Ai Message =====

Tool Calls:

user_input (26145849-1cba-47b6-91f4-d13782f42ba4)

Call ID: 26145849-1cba-47b6-91f4-d13782f42ba4

Args:

query: Could you please specify the correct location for which you want weather information?

===== Tool Message =====

Name: user_input

Faridkot and also tell latest trends in faridkot and also tell what is $5+3*7/9$

===== Ai Message =====

Tool Calls:

run (d1372a42-f67d-47aa-9361-eeecfbad780a5)

Call ID: d1372a42-f67d-47aa-9361-eeecfbad780a5

Args:

location: Faridkot

===== Tool Message =====

Name: run

In Faridkot, the current weather is as follows:

Detailed status: few clouds

Wind speed: 3.99 m/s, direction: 86°

Humidity: 25%

Temperature:

- Current: 38.78°C

- High: 38.78°C

- Low: 38.78°C

- Feels like: 39.11°C

Rain: {}

Heat index: None

Cloud cover: 16%

===== Ai Message =====

OK. The current weather in Faridkot is: few clouds, wind speed 3.99 m/s from 86°, humidity 25%, and a temperature of 38.78°C (feels like 39.11°C).

Now, let's calculate $5 + 3 * 7 / 9$:

Tool Calls:

multiply (00c5182a-6a72-4ced-835a-2ed5d1a43a55)

Call ID: 00c5182a-6a72-4ced-835a-2ed5d1a43a55

Args:

a: 3.0

b: 7.0

===== Tool Message =====

Name: multiply

21

===== Ai Message =====

Tool Calls:

divide (a0fee826-bebc-4e8c-b47f-434dc7466876)

Call ID: a0fee826-bebc-4e8c-b47f-434dc7466876

Args:

a: 21.0

b: 9.0

===== Tool Message =====

Name: divide

2.3333333333333335

===== Ai Message =====

Tool Calls:

add (81ccbba1-0550-4652-aacc-a6e538d8fc99)

Call ID: 81ccbba1-0550-4652-aacc-a6e538d8fc99

Args:

a: 5.0

b: 2.0

===== Tool Message =====

Name: add

7

===== Ai Message =====

Tool Calls:

add (4419ef2c-18bd-49ca-a783-162aed017338)

Call ID: 4419ef2c-18bd-49ca-a783-162aed017338

Args:

a: 5.0

b: 2.3333333333333335

===== Tool Message =====

Name: add

Error: 1 validation error for add

b

Input should be a valid integer, got a number with a fractional part [type=int_from_float, input_value=2.3333333333333335, input_type=float]

For further information visit https://errors.pydantic.dev/2.10/v/int_from_float

Please fix your mistakes.

===== Ai Message =====

Tool Calls:

tavily_search_results_json (894903a7-87ba-4f3a-94d3-d0713633a63c)

Call ID: 894903a7-87ba-4f3a-94d3-d0713633a63c

Args:

query: latest trends in Faridkot

===== Tool Message =====

Name: tavily_search_results_json

[{"title": "TODAYS TREND Company Profile | Faridkot, Punjab, India", "url": "https://www.dnb.com/business-directory/company-profiles/todays_trend.b1c564f9de72a23ecc02d06f1dd91bb2.html", "content": "Find company research, competitor information, contact details & financial data for TODAYS TREND of Faridkot, Punjab. Get the latest business insights from Dun", "score": 0.6952351}, {"title": "39 Reviews for Trends Villa in Faridkot City, Faridkot - Justdial", "url": "https://www.justdial.com/Faridkot/Trends-Villa-Near-Aggarwal-Dharmshala-Faridkot-City/9999P1639-1639-181109141638-L5X6_BZDET/reviews", "content": "I recently used Trends Villa for a repair service and I was highly impressed with their quick and efficient service. The technician arrived on time.", "score": 0.5172057}, {"title": "(PDF) Poisoning trends in Faridkot region: a retrospective study.", "url": "https://www.researchgate.net/publication/236624909_Poisoning_trends_in_Faridkot_region_a_retrospective_study", "content": "PDF | This is a two years retrospective study from poisoning cases data record that were admitted in the emergency forensic department of Medical.", "score": 0.49699774}, {"title": "IQBAL BOUTIQUE (Faridkot) (@iqbal_boutique) - Instagram", "url": "https://www.instagram.com/iqbal_boutique/", "content": "Oppsite Rambgh Road near MGM sen sec schol Faridkot. Make Your Occasions Special Wd Smart nd Latest Outfits. Shipping_ Worldwide. 6280731244", "score": 0.48572227}, {"title": "LSC | #lifestylecollection #style #faridkot #trendingreels ... - Instagram", "url": "https://www.instagram.com/reel/DEHa1BcJnfa/", "content": "... faridkot #trendingreels #trends #collection # ... #copywriting #faridkot #collection #new #style #trendingreels #viral.", "score": 0.47913864}]

===== Ai Message =====

Tool Calls:

user_input (6a6474ee-8dc5-424f-8898-40c46957632f)

Call ID: 6a6474ee-8dc5-424f-8898-40c46957632f

Args:

query: How many results do you want from the search for trends in Faridkot?

===== Tool Message =====

Name: user_input

3

===== Ai Message =====

OK. Here's the weather in Faridkot:

The current weather is few clouds.

Wind speed: 3.99 m/s, direction: 86°

Humidity: 25%

Temperature:

- Current: 38.78°C

- High: 38.78°C

- Low: 38.78°C

- Feels like: 39.11°C

Cloud cover: 16%

$5 + 3 * 7 / 9 = 7.33$

Here are the top 3 results for latest trends in Faridkot:

Result 1: TODAYS TREND Company Profile | Faridkot, Punjab, India

Find company research, competitor information, contact details & financial data for TODAYS TREND of Faridkot, Punjab. Get the latest business insights from Dun

Result 2: 39 Reviews for Trends Villa in Faridkot City, Faridkot - Justdial

I recently used Trends Villa for a repair service and I was highly impressed with their quick and efficient service. The technician arrived on time.

Result 3: (PDF) Poisoning trends in Faridkot region: a retrospective study.

This is a two years retrospective study from poisoning cases data record that were admitted in the emergency forensic department of Medical.

Model with Memory included and capable of counterquestioning

Interaction

===== Human Message =====

Hi my name is ayush .can you tell what is the weather in Chandigarh.After that tell latest fashion trends in delhi

===== Ai Message =====

Tool Calls:

run (ff5a96f3-1c18-4978-b45d-f30842288b2e)

Call ID: ff5a96f3-1c18-4978-b45d-f30842288b2e

Args:

location: Chandigarh

user_input (1590ccc1-f5e6-462d-9509-3e6db78d6c24)

Call ID: 1590ccc1-f5e6-462d-9509-3e6db78d6c24

Args:

query: How many search results do you want for the latest fashion trends in Delhi?

===== Tool Message =====

Name: user_input

2

===== Ai Message =====

Tool Calls:

tavily_search_results_json (67c655f7-9978-4789-9bae-7515626cecce)

Call ID: 67c655f7-9978-4789-9bae-7515626cecce

Args:

query: latest fashion trends in Delhi

===== Tool Message =====

Name: tavily_search_results_json

[{"title": "Delhi Fashion & Lifestyle Trends and Shops", "url": "https://so.city/delhi/fashion", "content": "Know all about the Latest Fashion Trends in Delhi. Find the best stores for Indian Clothing, Wedding Attire or Cheap Dresses! Love a bargain? We've Got You!", "score": 0.6854659}, {"title": "How Delhi's Fashion Trends Have Evolved Over the Years", "url": "https://delhidive.com/how-delhis-fashion-trends-have-evolved-over-the-years/", "content": "Women embraced Anarkalis, chiffon sarees, and oversized sunglasses, while men sported leather jackets, denim jeans, and gelled hair—thanks to", "score": 0.6615081}, {"title": "Gen Z Fashion Trends in Delhi, India: Part 5 | TikTok", "url": "https://www.tiktok.com/@thebharatiyaaindian/video/7503971247508835602", "content": "Explore the unique fashion styles of Gen Z in Delhi, India! Discover the latest trends and vibrant outfits. #india #indian #delhi #fashion", "score": 0.64344186}, {"title": "Street Style Delhi | Aliya (@streetstyledelhi) • Instagram photos and ...", "url": "https://www.instagram.com/streetstyledelhi/?hl=en", "content": "Likewise, a sense of style sometimes is both - a flared pant from the 70s and a black tee from the present. #StreetStyleDelhi #Delhi #Matargasht.", "score": 0.466433}, {"title": "Street Style in New Delhi, India—'It's vibrant and colorful ... - Vogue", "url": "https://www.vogue.com/article/india-street-style-new-delhi", "content": "Which is why we launched a street style series that looks at what people are wearing in the coolest neighborhoods in countries around the world—beyond the confines of fashion week. So far we've checked out the Roma neighborhood in Mexico City, Fort Greene in Brooklyn, Harajuku in Tokyo, and El Rastro in Madrid. And we're kicking off our global tour this year with a visit to Central and South Delhi in India with 31-year-old photographer Naveli Choyal, who's originally from Asjmer, Rajasthan. [...] Khup Hangsing, 28, Lamka, Manipur\n'I'm wearing a silk and raffia fringe dress that I hand-knitted with a white shirt that I designed, a plaid silk tie I got as a souvenir from a fashion show I walked in last fall, a traditional red wrap-around woven cloth that in my Paite dialect we call 'puan,' and red stockings underneath the dress, paired with these preppy loafers."}\n\nSaif Ali, 19, Born in Bihar, Currently living in Delhi\n'Today, I'm exploring this neighborhood for potential dance spots.' [...] Street Style in New Delhi—'It's Vibrant and Colorful and It Showcases the Craftsmanship From All Indian States'", "score": 0.45289946}]

===== **Ai Message** =====

Okay, here's the information you requested:

* **Weather in Chandigarh:** The weather in Chandigarh is clear sky. The wind speed is 5.39 m/s from 143°. The humidity is 32%. The temperature is 36.33°C, feels like 37.22°C. There is no rain, and the cloud cover is 1%.

Here are a couple of the latest fashion trends in Delhi:

Result 1: [So City Delhi] (<https://so.city/delhi/fashion>) provides information on the latest fashion trends and the best stores for Indian clothing, wedding attire, and cheap dresses in Delhi.

Result 2: Delhi Dive discusses how fashion trends in Delhi have evolved over the years, with women embracing Anarkalis, chiffon sarees, and oversized sunglasses, while men sported leather jackets, denim jeans, and gelled hair.

===== **Human Message** =====

Hi what is my name and what city weather i asked use now and what city trends i ask for

===== **Ai Message** =====

Okay, here's a summary of what I remember:

- * **Your name:** Ayush
- * **City weather you asked about now:** Chandigarh
- * **City fashion trends you asked about:** Delhi

===== **Human Message** =====

tell what was the latest question i asked from you

===== **Ai Message** =====

The latest question you asked me was: "tell what was the latest question i asked from you".

===== **Human Message** =====

Dont be oversmart tell me which the latest message before this one

===== **Ai Message** =====

The latest message before this one was: "tell what was the latest question i asked from you".

Also, Memory model

Interaction

===== **Human Message** =====

Hi tell the weather in faridkot .also tell latest current affairs

===== **Ai Message** =====

Tool Calls:

run (a67c8997-0a00-46a9-901e-34283da692c0)

Call ID: a67c8997-0a00-46a9-901e-34283da692c0

Args:

location: faridkot

===== **Tool Message** =====

Name: run

In faridkot, the current weather is as follows:

Detailed status: few clouds

Wind speed: 3.99 m/s, direction: 86°

Humidity: 24%

Temperature:

- Current: 38.58°C

- High: 38.58°C

- Low: 38.58°C

- Feels like: 38.49°C

Rain: {}

Heat index: None

Cloud cover: 16%

===== **Ai Message** =====

OK. The current weather in Faridkot is: few clouds, wind speed 3.99 m/s from 86 degrees, humidity 24%, and a temperature of 38.58°C (feels like 38.49°C).

To provide you with the latest current affairs, I need to do a web search. How many search results would you like me to provide?

Tool Calls:

user_input (20efdfa8-43d9-44ce-ad18-b6d9ecd0e8e3)

Call ID: 20efdfa8-43d9-44ce-ad18-b6d9ecd0e8e3

Args:

query: How many search results do you want for current affairs?

===== Tool Message =====

Name: user_input

3

===== Ai Message =====

Tool Calls:

tavily_search_results_json (3386416f-ebde-427f-b379-93cae22c4e0f)

Call ID: 3386416f-ebde-427f-b379-93cae22c4e0f

Args:

query: current affairs

===== Tool Message =====

Name: tavily_search_results_json

```
[{"title": "Current affairs (news format) - Wikipedia", "url": "https://en.wikipedia.org/wiki/Current_affairs_(news_format)", "content": "Contents\n\nCurrent affairs (news format)\n\n | This articlepossibly containsoriginal research.Pleaseimprove itbyverifyingthe claims made and addinginline citations. Statements consisting only of original research should be removed.(February 2013)(Learn how and when to remove this message)\n\nCurrent affairs is a genre of broadcast journalism in which major news stories are discussed at length in a timely manner. [...] In Australia, the aptly named A Current Affair, developed by the Nine Network in the 1970s, focuses on community issues not usually discussed by major news bulletins. Recurring stories include: hoons, dodgy tradies, neighbours from hell, and corruption. They also run numerous stories about local legends as well as various lifestyle tips. Today Tonight, produced by the Seven Network from 1995 to 2019, was also similar in format, covering stories comparable to that of ACA. [...] Additionally, newspapers such as the Private Eye, The Economist, Monocle, The Spectator, The Week, The Oldie, Investors Chronicle, Prospect, MoneyWeek,[3] New Statesman, Time, Fortune, BBC History Magazine, and History Today, are all sometimes referred to as current affairs magazines.[4]\n\nSee also\n\nReferences\n\n | Thisjournalism-related article is astub. You can help Wikipedia byexpanding it.\n\nThis journalism-related article is a stub. You can help Wikipedia by expanding it.", "score": 0.91490877}, {"title": "Current Affairs (magazine) - Wikipedia", "url": "https://en.wikipedia.org/wiki/Current_Affairs_(magazine)", "content": "Current Affairs is an American bimonthly magazine that discusses political and cultural topics from a left-wing perspective. It was founded by Oren Nimni and Nathan J. Robinson in 2015. The magazine is published in print and online, and also has a podcast.[4][5] It does not feature advertising, and is funded by subscriptions and donations. [...] Its political stances have been described as socialist,[6] progressive,[7] and broadly leftist.[8] The magazine's stated mission is \"to produce the world's first readable political publication and to make life joyful again.\"[1] Its format is influenced by magazines such as Jacobin and Spy.[9]\n\nHistory\n\nCurrent Affairs started after a successful Kickstarter campaign in 2015.[5] [...] Cover of the May/June 2020 issue\nEditor-in-chief | Nathan J. Robinson[1]\nLegal editor | Oren Nimni[1]\nFormer editors | Nick SlaterVanessa A. Bee\nCategories | Politics,culture\nFrequency | Bimonthly\nCirculation | 3,795[2]\nFounder | Nathan J. RobinsonOren Nimni\nFounded | 2015\nCompany | Current Affairs Inc[3]\nCountry | United States\nBased in | New Orleans, Louisiana\nLanguage | English\nWebsite | currentaffairs.org\nISSN | 2471-2647", "score": 0.8896154}, {"title": "Home Current Affairs", "url": "https://www.currentaffairs.org/", "content": "Labor\n\nHistory\n\nInternational\n\nA Current Affairs subscription is one of the best known ways to improve your life in a hurry. Our print magazine is released six times a year, in a beautiful full-color edition full of elegant design, sophisticated prose, and satirical advertisements.\n\nWhy not listen to the Current Affairs\nPodcast\n\nEvery other week our editorial team brings you a mixture of discussion, analysis, and whimsy.\n\nIt's fun to purchase things in our\nShop [...] Help us make life joyful again\nDonate\n\nsubscribe
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to our weekly briefings to read\nTHE NEWS\n\nCurrent Affairs [...] Current Affairs\n\nA Magazine of Politics and Culture\n\nMenu\n\nWhy 'Saturday Night Live' Has Endured 50 Years\n\nIn her new book, the New Yorker's Susan Morrison delves into the life and work of Lorne Michaels—one of the most influential, but least understood figures in American popular culture.\n\nThe Problem Goes Well Beyond Biden\n\nThe Democratic Party is sclerotic. It's easy to heap blame on Joe Biden now that he is weak and powerless. But that's a convenient way of avoiding a major reckoning.", "score": 0.73755574}, {"title": "Current Affairs - Apple Podcasts", "url": "https://podcasts.apple.com/us/podcast/current-affairs/id1384567205", "content": "Current Affairs\n\nA podcast of politics and culture, from the editors of Current Affairs magazine.\n\nEpisodes\n\n1D AGO\n\nAmerica's Diplomatic Failures in China, Ukraine, and Gaza (w/Chas Freeman) [...] ðŹ!© This episode originally aired on May 16, 2025. Get new episodes early at patreon.com/CurrentAffairs Chas Freeman is one of the most insightful voices in U.S. foreign policy, with a distinguished career as a diplomat and a deep expertise in U.S.-China relations. In this conversation with Nathan J. Robinson, Freeman offers a searing critique of America's current approach to diplomacy, the global balance of power, and its role in key international conflicts. Freeman challenges the pervasive [...] ðŹ!© This episode originally aired on April 18, 2025. Get new episodes early at patreon.com/CurrentAffairs America is in crisis, but it doesnâ€™t have to be this way. Around the world, other countries have already solved many of the problems weâ€™re told are unsolvable here: from unaffordable healthcare to lack of parental leave, crumbling infrastructure, climate disaster, and more. So why canâ€™t the U.S. do what other nations have already done? Weâ€™re joined by journalist and lecturer", "score": 0.69672287}, {"title": "Current Affairs: Music", "url": "https://currentaffairs.bandcamp.com/", "content": "Compromise, Off the Tongue, Object & Subject, Buckle Up / Worlds In Crisis, Breeding Feeling / Draw The Line, Cheap Cuts / Let Her Object.", "score": 0.40056232}]

===== Ai Message =====

Here are the top 3 current affairs results from the web:

Result 1: Current affairs (news format) - Wikipedia

Current affairs is a genre of broadcast journalism where major news stories are discussed at length. In Australia, A Current Affair focuses on community issues, "dodgy tradies," and corruption. Newspapers like The Economist, Time, and BBC History Magazine are also sometimes referred to as current affairs magazines.

Result 2: Current Affairs (magazine) - Wikipedia

Current Affairs is an American bimonthly magazine with a left-wing perspective, founded in 2015 by Oren Nimni and Nathan J. Robinson. It is funded by subscriptions and donations, with a mission "to produce the world's first readable political publication and to make life joyful again."

Result 3: Home Current Affairs

Current Affairs is a magazine of politics and culture. It includes articles such as "Why 'Saturday Night Live' Has Endured 50 Years" and "The Problem Goes Well Beyond Biden." It also has a podcast and a shop.

Memory model with memory summarization

Interaction

===== Human Message =====

hi do you know my name

===== **Ai Message** =====

Tool Calls:

user_input (eedc5dcf-0f36-4258-b9a1-6139e8ac0559)

Call ID: eedc5dcf-0f36-4258-b9a1-6139e8ac0559

Args:

query: As a large language model, I do not have memory of past conversations. What is your name?

===== **Tool Message** =====

Name: user_input

Ayush

===== **Ai Message** =====

Hello Ayush, nice to meet you! Can I help you with something else?

Tool Calls:

user_input (a56caa14-a539-40d7-97be-44546a739aa6)

Call ID: a56caa14-a539-40d7-97be-44546a739aa6

Args:

query: Can I help you with something else?

===== **Tool Message** =====

Name: user_input

tell a joke

===== **Ai Message** =====

Why don't scientists trust atoms?

Because they make up everything!

Tool Calls:

user_input (b6a0daae-e867-46c1-8ea0-fb552675b27f)

Call ID: b6a0daae-e867-46c1-8ea0-fb552675b27f

Args:

query: Can I help you with something else?

===== **Tool Message** =====

Name: user_input

no

===== **Ai Message** =====

Ok, bye.

===== **Human Message** =====

what is my name

===== **Ai Message** =====

I learned your name in our previous interaction. Your name is Ayush. Can I help you with something else?

Tool Calls:

user_input (faf63504-d43b-4e75-9855-150f025cde86)

Call ID: faf63504-d43b-4e75-9855-150f025cde86

Args:

query: Can I help you with something else?

===== **Tool Message** =====

Name: user_input

tell what was the question i asked from you in our previos interaction

===== **Ai Message** =====

You asked me if I knew your name.

Tool Calls:

user_input (5aa8e544-13fa-4c69-9d8a-d12ea4fdda77)

Call ID: 5aa8e544-13fa-4c69-9d8a-d12ea4fdda77

Args:

query: Can I help you with something else?

===== **Tool Message** =====

Name: user_input

enough

===== **Ai Message** =====

OK.

===== Human Message =====

hi

===== Ai Message =====

Hi there! How can I help you today?

Tool Calls:

user_input (b4664dd4-bc6a-4b98-9de1-e89ac16c0aed)

Call ID: b4664dd4-bc6a-4b98-9de1-e89ac16c0aed

Args:

query: How can I help you today?

===== Tool Message =====

Name: user_input

no

===== Ai Message =====

Ok, bye.

===== Human Message =====

Hi lets play a game

===== Ai Message =====

Tool Calls:

user_input (5e2655f7-c28f-4a64-bf1d-90db4655b153)

Call ID: 5e2655f7-c28f-4a64-bf1d-90db4655b153

Args:

query: What game would you like to play?

===== Tool Message =====

Name: user_input

i will think a number and you will guess

===== Ai Message =====

Okay, I'm ready. Is there a range for the number I need to guess?

Tool Calls:

user_input (beb93efe-6cb0-4a31-8782-7a8396233bc0)

Call ID: beb93efe-6cb0-4a31-8782-7a8396233bc0

Args:

query: What is the range of the number you are thinking of? For example, is it between 1 and 10?

===== Tool Message =====

Name: user_input

yes

===== Ai Message =====

Okay, I'll guess a number between 1 and 10. Is your number 5?

Tool Calls:

user_input (3c76de3d-9a50-4d88-abd7-904ebe306299)

Call ID: 3c76de3d-9a50-4d88-abd7-904ebe306299

Args:

query: Is the number 5? Please answer 'yes', 'no, higher', or 'no, lower'.

===== Tool Message =====

Name: user_input

higher

===== Ai Message =====

Tool Calls:

user_input (2638c57f-f276-4f8f-95fc-2e318199d211)

Call ID: 2638c57f-f276-4f8f-95fc-2e318199d211

Args:

query: Is the number 8? Please answer 'yes', 'no, higher', or 'no, lower'.

===== Tool Message =====

Name: user_input

lower

===== Ai Message =====

Tool Calls:

user_input (4462c784-fcb5-4d49-8d21-b9bd2f3c73ca)

Call ID: 4462c784-fcb5-4d49-8d21-b9bd2f3c73ca

Args:

query: Is the number 6? Please answer 'yes', 'no, higher', or 'no, lower'.

===== Tool Message =====

Name: user_input

yes

===== **Ai Message** =====

I guessed it! The number is 6.

Tool Calls:

user_input (febd9737-2b16-4cbc-898d-5cbad639ee47)

Call ID: febd9737-2b16-4cbc-898d-5cbad639ee47

Args:

query: Can I help you with something else?

===== **Tool Message** =====

Name: user_input

no just tell my name and exit

===== **Ai Message** =====

I don't know your name. Is there anything else I can help you with?

Tool Calls:

user_input (18c6157f-b1aa-465b-9894-8a98ace8304b)

Call ID: 18c6157f-b1aa-465b-9894-8a98ace8304b

Args:

query: Can I help you with something else?

===== **Tool Message** =====

Name: user_input

no

===== **Ai Message** =====

Ok, bye.

===== **Human Message** =====

what is the weather in Faridkot and Delhi

===== **Ai Message** =====

Tool Calls:

run (1b407a3d-2e8e-42d0-857f-d193b65348b6)

Call ID: 1b407a3d-2e8e-42d0-857f-d193b65348b6

Args:

location: Faridkot

run (d38002ff-7c3c-4b2c-97ac-b6212a788663)

Call ID: d38002ff-7c3c-4b2c-97ac-b6212a788663

Args:

location: Delhi

===== Tool Message =====

Name: run

In Delhi, the current weather is as follows:

Detailed status: haze

Wind speed: 3.09 m/s, direction: 70°

Humidity: 62%

Temperature:

- Current: 30.05°C

- High: 30.05°C

- Low: 30.05°C

- Feels like: 33.34°C

Rain: {}

Heat index: None

Cloud cover: 20%

===== Ai Message =====

The weather in Faridkot is clear with a temperature of 39.85°C, wind speed of 2.21 m/s, and humidity of 18%. The weather in Delhi is hazy with a temperature of 30.05°C, wind speed of 3.09 m/s, and humidity of 62%.

Can I help you with something else?

Tool Calls:

user_input (ca54fb73-7c3a-46fa-9db2-848bc9d49793)

Call ID: ca54fb73-7c3a-46fa-9db2-848bc9d49793

Args:

query: Can I help you with something else?

===== Tool Message =====

Name: user_input

no

===== Ai Message =====

OK.

===== Human Message =====

Hi

===== Ai Message =====

Hi there! How can I help you today?

Tool Calls:

user_input (6c075513-dc29-409a-b4c3-492479332be6)

Call ID: 6c075513-dc29-409a-b4c3-492479332be6

Args:

query: How can I help you today?

===== Tool Message =====

Name: user_input

tell weather in mohali and latest news in mohali

===== Ai Message =====

Tool Calls:

run (3b521241-d0cb-451c-beda-e968342f049b)

Call ID: 3b521241-d0cb-451c-beda-e968342f049b

Args:

location: mohali

===== Tool Message =====

Name: run

In mohali, the current weather is as follows:

Detailed status: clear sky

Wind speed: 1.57 m/s, direction: 130°

Humidity: 43%

Temperature:

- Current: 29.28°C

- High: 29.28°C

- Low: 29.28°C

- Feels like: 29.2°C

Rain: {}

Heat index: None

Cloud cover: 1%

===== Ai Message =====

Tool Calls:

user_input (d0759574-ee68-4721-a86c-d51ea5cac3cd)

Call ID: d0759574-ee68-4721-a86c-d51ea5cac3cd

Args:

query: How many latest news results about Mohali would you like?

===== Tool Message =====

Name: user_input

3

===== Ai Message =====

Tool Calls:

tavily_search_results_json (ecfbf30a-8354-41e3-a83f-cbba4a55598e)

Call ID: ecfbf30a-8354-41e3-a83f-cbba4a55598e

Args:

query: latest news in Mohali

===== Tool Message =====

Name: tavily_search_results_json

[{"title": "Latest News on Mohali 2 - The Indian Express", "url": "https://indianexpress.com/about/mohali-2/", "content": "mohali\\n\\nMOHALI NEWS\\n\\nWoman tests positive for Covid-19 in Mohali; authorities say no cause for panic\\n\\nMay 25, 2025 6:12 pm\\n\\nDoctors at Fortis Hospital have reported that the woman is in stable condition and is likely to be discharged within a day or two.\\n\\nCouncillor flays Mohali Mayor's broom-and-mop remark: 'Senior deputy mayor, deputy mayor must clarify'\\n\\nMay 24, 2025 3:27 pm [...] Express Impact | Human rights panel takes suo motu notice of water crisis in Mohali housing colony\\n\\nMay 18, 2025 7:00 pm\\n\\nAn Indian Express report had highlighted how families in the Punjab Police Housing Colony in Mohali had been without water for four days.\\n\\nCarpenter's daughter secures 22nd rank on state merit list\\n\\nMay 17, 2025 10:54 am [...] May 16, 2025 10:38 am\\n\\nInstrumental in establishing over 100 herbal gardens, big and small, in schools and colleges of Chandigarh, this former Punjabi f lecturer is busy reaping the harvest of hard work and refuses to retire from the field of medicinal plantation as yet\\n\\nMohali Meritorious School excels in PSEB Class 12 results, 11 students on merit list\\n\\nMay 15, 2025 9:30 am", "score": 0.84215075}, {"title": "Mohali Latest News, Mohali Breaking News Live - India TV News", "url": "https://www.indiatvnews.com/topic/mohali/news", "content": "Mohali\\n\\nBajinder Singh, self-proclaimed pastor, convicted in 2018 rape case, sentencing on April 1\\n\\nA Mohali POCSO court has convicted controversial pastor Bajinder Singh in the 2018 Zirakpur rape and sexual assault case. The court will announce his sentence on April 1. Singh, arrested in 2018 while attempting to flee to London, was charged under multiple IPC sections.\\n\\nSarwan Singh Pandher and Jagjit Singh Dallewal detained in Mohali, claims farmer leader | WATCH [...] Mohali building collapse updates: Woman pulled out by NDRF succumbs to injuries, police book owner\\n\\nMohali building collapse: The multi-storey building collapsed on the Saturday evening in which at least five people were believed to have been trapped under the debris. The police have booked the building owners.\\n\\nPunjab: Multi-storey under construction building collapses in Mohali | VIDEO [...] Punjab Police raids Mohali hideout, detains close aides of Amritpal Singh\\n\\nThe aides were arrested from Mohali's Sector 89 after the Punjab Police conducted raids.\\n\\nAaj Ki Baat: Full episode, March 8, 2023\\n\\nIndia's number one and the most followed Super Prime Time News Show 'Aaj Ki Baat- Rajat Sharma Ke Saath' was launched just before the 2014 general elections.\\n\\nCanadian Sikh, who was on India visit, killed in Punjab after alleged argument over music", "score": 0.7596005}, {"title": "Latest News, Photos, Videos on Mohali - NDTV.COM", "url": "https://www.ndtv.com/topic/mohali", "content": "Cinema Halls, Shopping Malls To Remain Shut From Sunrise To Sunset In Mohali\\n\\nThe district administration in Punjab's Mohali on Friday ordered the closure of cinema halls and shopping malls from sunset to sunrise till further orders, officials said.\\n\\nOperation Sindoor Highlights: 'Operations Remain Normal,' Says Delhi Airport [...] The video opens with the vendor cutting frozen kulifs into bite-sized pieces, then adding gulab jamun to each plate.\\n\\nCinema Halls, Shopping Malls To Remain Shut From Sunrise To Sunset In Mohali\\n\\nThe district administration in Punjab's Mohali on Friday ordered the closure of cinema halls and shopping malls

from sunset to sunrise till further orders, officials said.\n\nOperation Sindoor Highlights: \"Operations Remain Normal,\" Says Delhi Airport [...] Aam Aadmi Party (AAP) workers staged a protest in Mohali against Punjab Leader of Opposition and Congress MLA Partap Singh Bajwa on Monday, following his controversial remarks that \"50 bombs have reached Punjab.\" \n\n17-Year-Old Dies By Suicide At Mall In Mohali, Jumps From 4th Floor\n\nA 17-year-old boy has died by suicide after jumping from the fourth floor of a popular mall in Mohali.\n\nFarm Leaders Detained In Punjab's Mohali, Cops Clear Shambhu Border\", \"score\": 0.74318707}, {\"title\": \"Mohali - Hindustan Times\", \"url\": \"https://www.hindustantimes.com/topic/mohali\", \"content\": \"Subscribe Now! Get features like\n\nmohali\n\nLatest from mohali\n\nMohali: GMADA bulldozers get rolling in Jhampur village, Sector 122\n\nThe action came days after HT reported on May 19 how nearly 15 illegal colonies had mushroomed in Mohali right under the nose of GMADA despite the Punjab government's repeated claims of clampdown on such settlements\n\nTwo lives snuffed out in separate road mishaps in Panchkula and Mohali\", \"score\": 0.73846215}, {\"title\": \"Latest News on Mohali - Times of India\", \"url\": \"https://timesofindia.indiatimes.com/topic/mohali/news\", \"content\": \"7 Nigerians arrested in UP, mohali police bust int'l gang of online scammers · Range Rover driver assaulted near <i class=\\\"tbold\\\">mohali</i.\", \"score\": 0.69672287}}]

===== Ai Message =====

Here are the 3 latest news items about Mohali:

1. **The Indian Express:** A woman tested positive for Covid-19 in Mohali, but authorities say there is no cause for panic. Doctors at Fortis Hospital reported she is in stable condition. Also, the human rights panel took suo motu notice of the water crisis in a Mohali housing colony after an Indian Express report highlighted that families in the Punjab Police Housing Colony in Mohali had been without water for four days.
2. **India TV News:** A Mohali POCSO court convicted Bajinder Singh, a self-proclaimed pastor, in a 2018 rape and sexual assault case. His sentence will be announced on April 1. Additionally, farmer leaders Sarwan Singh Pandher and Jagjit Singh Dallewal were detained in Mohali.
3. **NDTV:** The district administration in Mohali ordered the closure of cinema halls and shopping malls from sunset to sunrise until further notice. Also, a 17-year-old boy died by suicide after jumping from the fourth floor of a mall in Mohali.

Can I help you with something else?

Tool Calls:

user_input (c78eac83-b1f1-4556-90b7-492e585256d1)

Call ID: c78eac83-b1f1-4556-90b7-492e585256d1

Args:

query: Can I help you with something else?

===== Tool Message =====

Name: user_input

no

===== Ai Message =====

Okay, have a great day!

Multi Agent Tools

Interaction

Update from node supervisor:

===== Tool Message =====

Name: transfer_to_research_agent

Successfully transferred to research_agent

Update from node research_agent:

===== Ai Message =====

Name: research_agent

Mann ki Baat: Operation Sindoor not just military mission but face of changing India, says PM Modi.

Assembly bypolls to five seats in four states on June 19: Election Commission.

India views China as 'primary adversary', Pakistan more 'ancillary' security problem: U.S. report.

Indian MP delegation calls on Bahrain Deputy PM, conveys India's stand against terrorism.

Asaduddin Owaisi calls Pakistan a 'failed state' during interaction in Bahrain, says India exercised maximum restraint.

Congress objects to BJP MP Jangra's remarks, demands his sacking.

Caste census not divisive, it will strengthen social justice: Scheduled Caste rights panel chief.

NDA meeting adopts resolution praising armed forces, PM Modi.

BJP MP apologises for controversial remarks on women tourists at Pahalgam.

Former captains Virat Kohli and Rohit Sharma have shown a "blueprint" for India's future success, says new skipper Shubman Gill.

School bus attack caught in tensions between Pakistan and India.

India's colonial past revealed through 200 masterful paintings.

Mob kills Royal Bengal tiger in India's Assam state.

The Indian film 'Homebound' got a nine-minute ovation at Cannes.

Woman behind viral post with fake Indian-origin CEO claims she was blackmailed.

Amid Turkey boycott calls, PM says more Indians going for domestic vacations.

After thunderstorms lash Delhi, videos of cars submerged in rainwater go viral.

Alia Bhatt pauses to take selfie with elderly fan at Cannes 2025.

Miss World UK 2025 contestant Milla Magee quits pageant.

Kush Maini becomes first Indian to win F2.

Four victims, allegedly beaten up over suspicions of carrying beef, were admitted to the JNMC Hospital in Aligarh.

Delhi shoe factory worker gets 20-year rigorous imprisonment for sexual abuse of minor girl.

2 teenagers dead in fire at e-rickshaw charging station in Delhi's Shahdara.

Damage at Delhi airport T1 due to heavy rain, DIAL says 'no structural compromise'.

Ghaziabad sub-inspector killed after roof of ACP office collapses in heavy rain.

There will be a price to pay: Indian team in US on Pak terror.

'Oil slick can reach anywhere along coast': Kerala sounds alert after ship capsizes.

Lalu Prasad expels son Tej Pratap from party, family.

Gemini produced an empty response. Continuing with empty message

Feedback:

Update from node supervisor:

===== **Ai Message** =====

Name: supervisor

Update from node supervisor:

===== **Tool Message** =====

Name: transfer_to_weather_agent

Successfully transferred to weather_agent

Update from node weather_agent:

===== **Ai Message** =====

Name: weather_agent

In faridkot, the current weather is as follows:

Detailed status: clear sky

Wind speed: 5.52 m/s, direction: 102°

Humidity: 29%

Temperature:

- Current: 31.52°C

- High: 31.52°C

- Low: 31.52°C

- Feels like: 30.18°C

Rain: {}

Heat index: None

Cloud cover: 0%

Gemini produced an empty response. Continuing with empty message

Feedback:

Update from node supervisor:

===== **Ai Message** =====

Name: supervisor