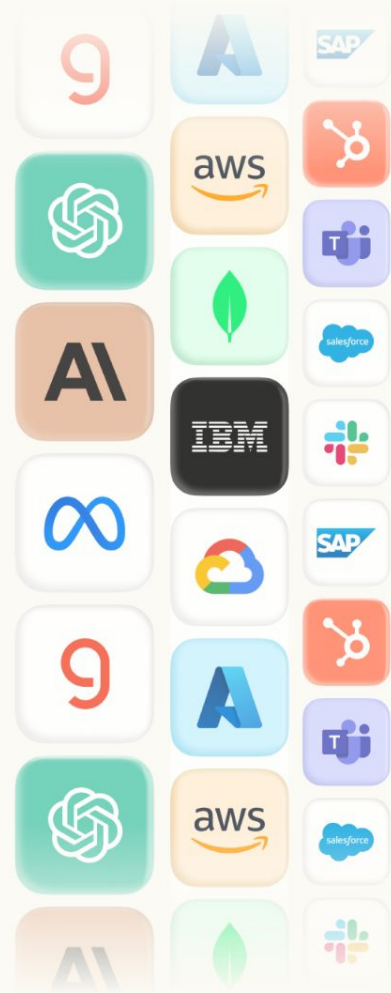




The Leading
Multi-Agent Platform

Building an AI-Driven Company with Agents



10,602,922

10,602,922

AI Agents



LLMs

GPT 4
Gemini
Sonnet 2.5
OpenHermes

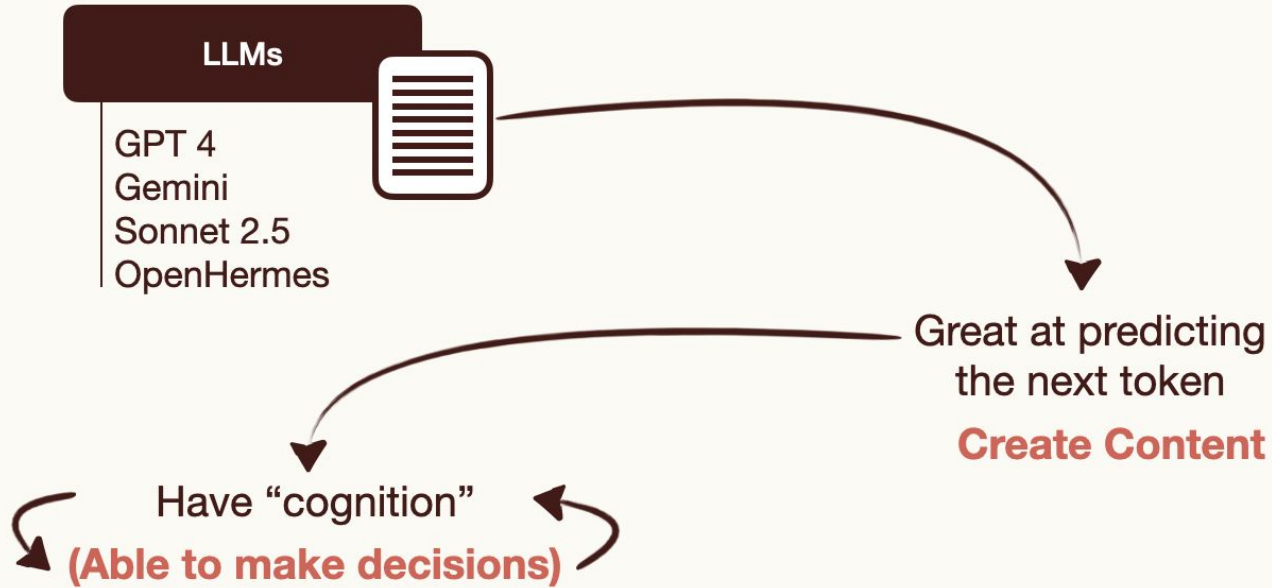


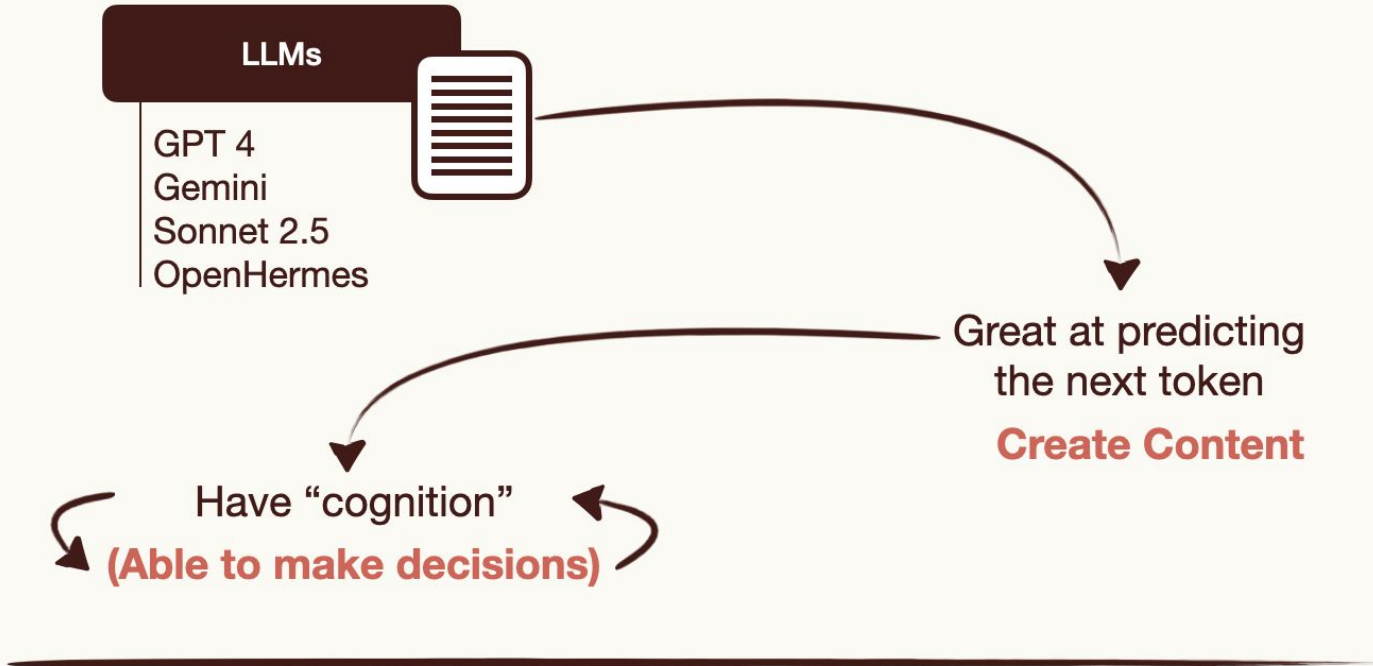
LLMs

GPT 4
Gemini
Sonnet 2.5
OpenHermes



Great at predicting
the next token
Create Content





An Agent is Born

You can leave the chat room

Real Time

Reaction



zendesk ceo



Todas

Notícias

Imagens

Vídeos

Shopping

Maps

Web

: Mais

Ferram

Tom Eggemeier

Tom Eggemeier

Tom is the CEO of Zendesk, and a member of the board.



Zendesk

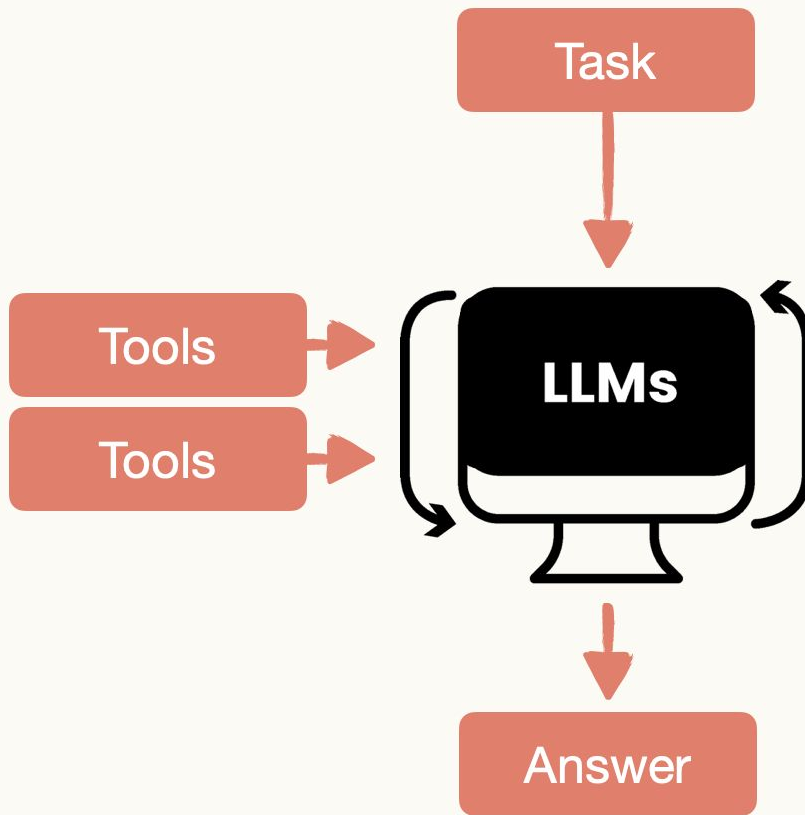
<https://www.zendesk.com> > company > management-team

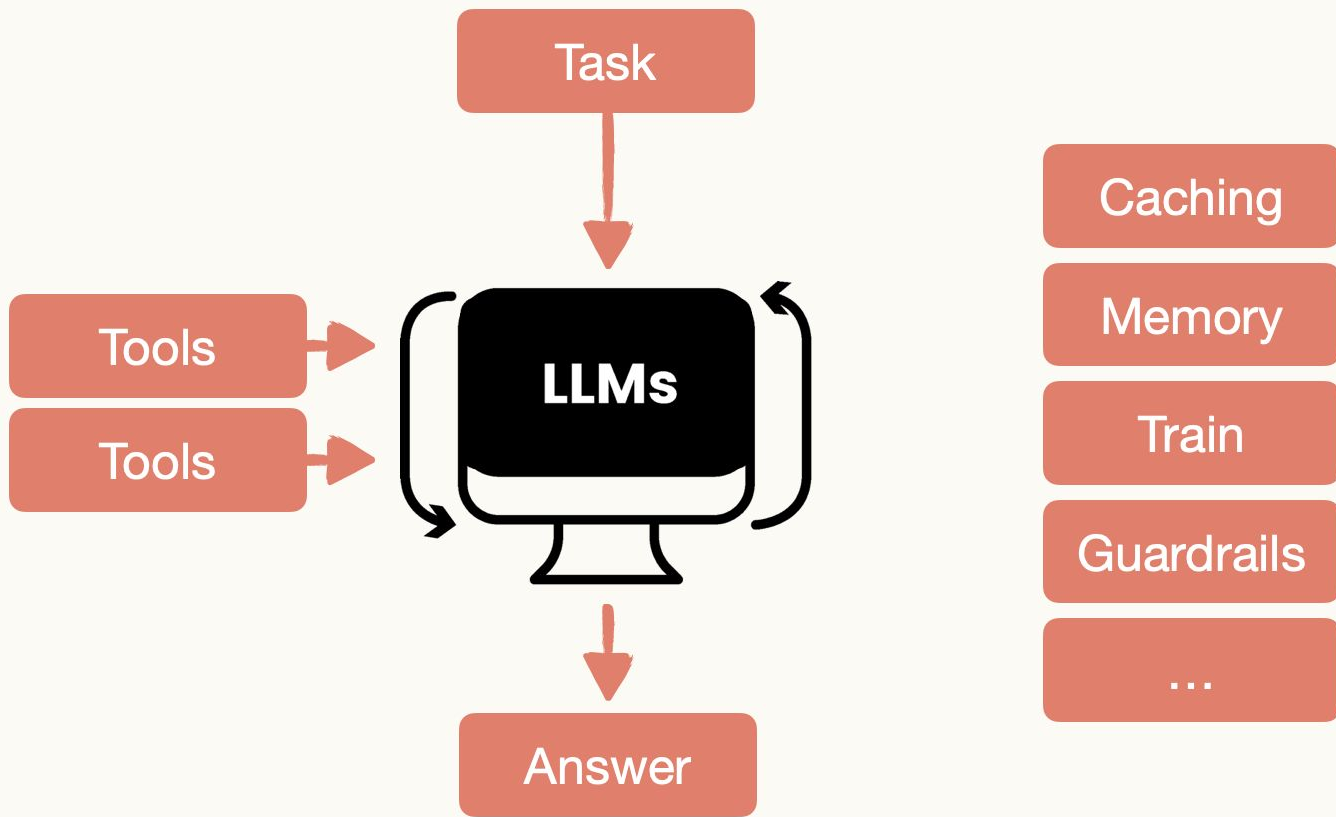
[Zendesk Management Team](#)

🔍 Sobre trechos em destaque • 🗨️ Feed

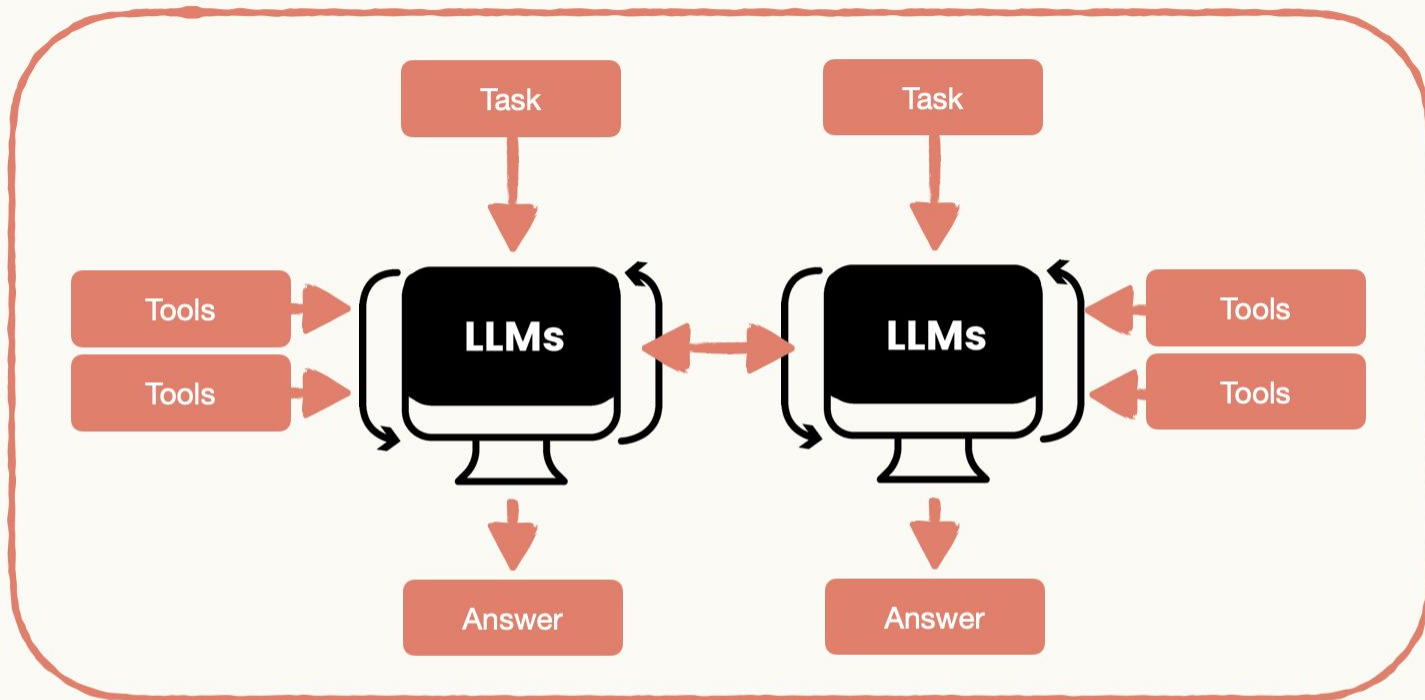
As pessoas também perguntam :







Crew



Caching

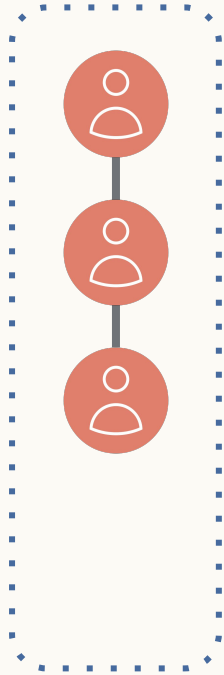
Memory

Train

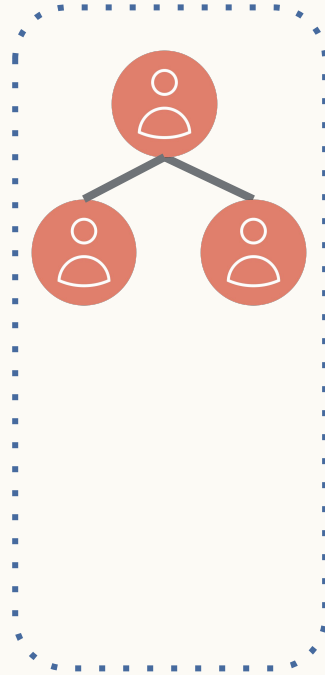
Guardrails

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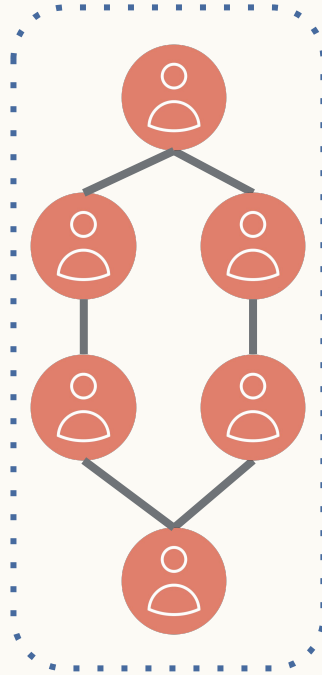
Sequential



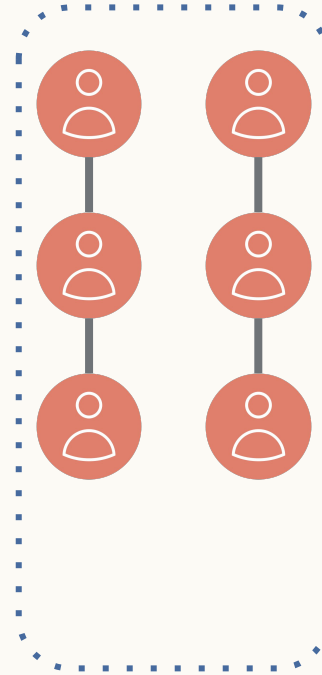
Hierarchical



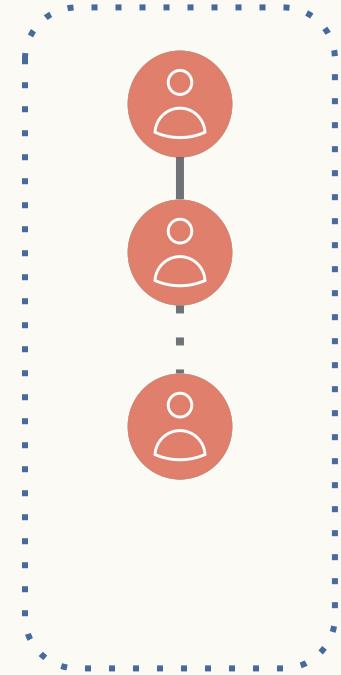
Hybrid



Parallel



Async



NEW FEATURE COMING
NEXT VERSION

Python



Flow

*Python meets
Multi Crews*

João Moura

CEO of crewAI





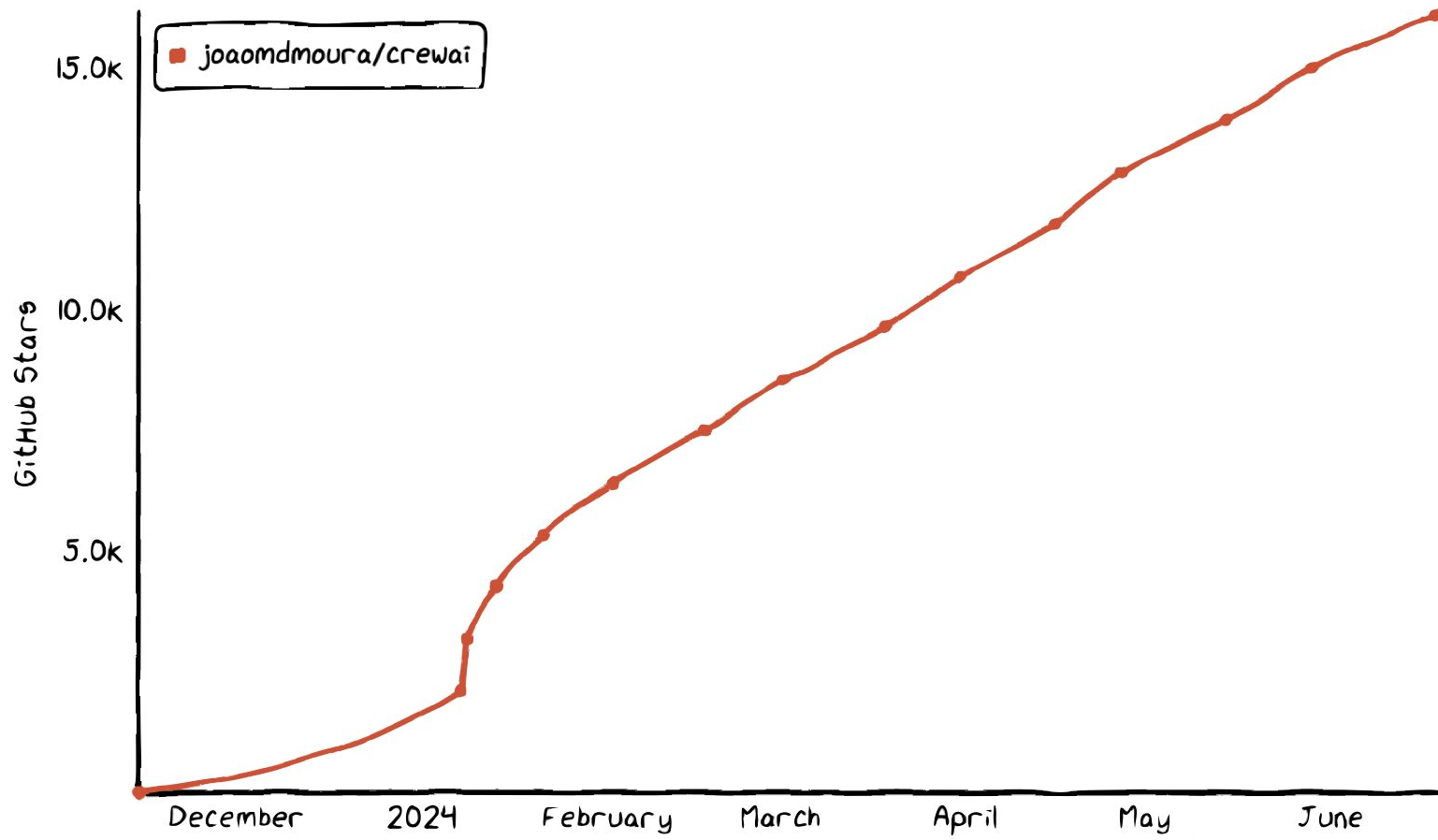




POPULAÇÃO MÁXIMA
ESSOAS

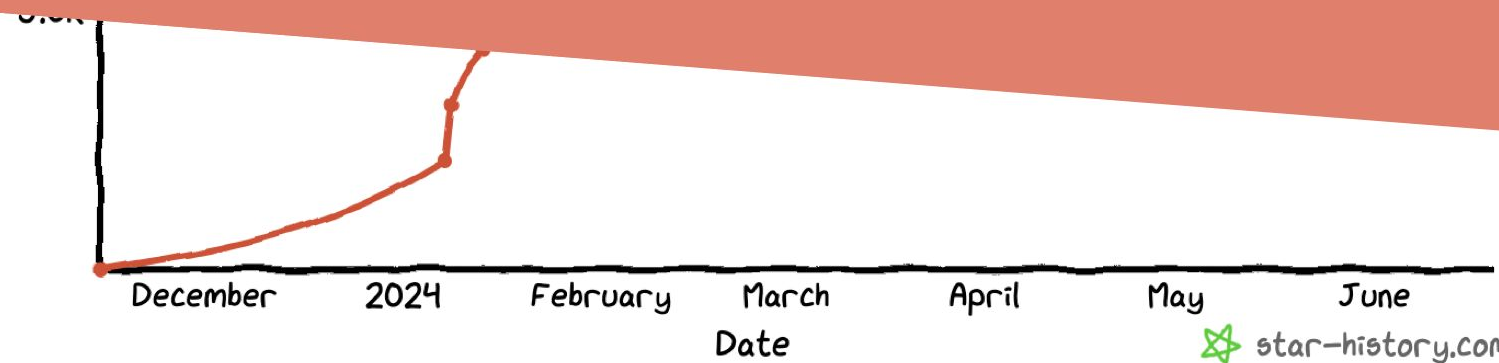
DESE 1974
JAGANO
SAMADO

FLORYBAL
CHOCOLATES



15.0k
■ joaomdmoura/crewai

Rabbit Holes



☆ star-history.com



15.0k

joaomdmoura/crewai

Hallucinations

2024

February

March

Date

April

May

June

star-history.com



15.0k

joaomdmoura/crewai

Tools Errors

2024

February

March

Date

April

May

June



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2024

February

March

April

May

June

Date

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18.7k+
Stars



9.5K+
Members



Top 19%
of all redds

marketing crew



**Content Creator
Specialist**



**Social Media
Analyst**

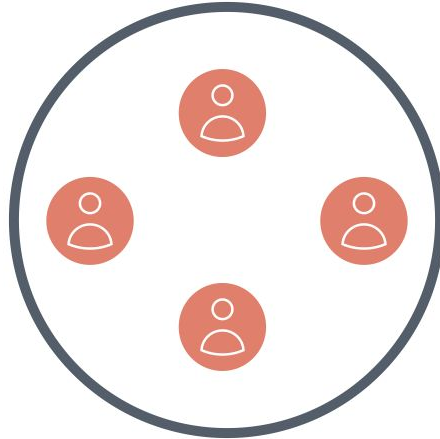


**Senior Content
Writer**



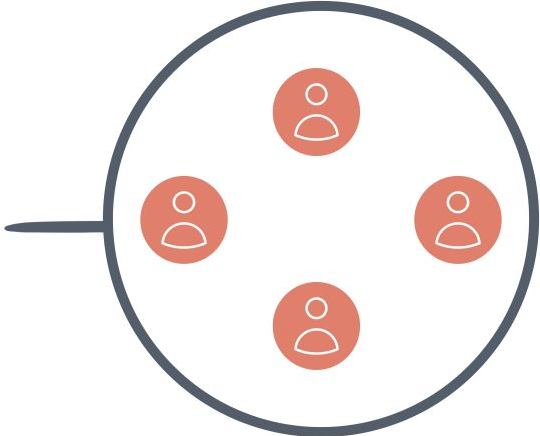
**Chief Content
Officer**

marketing crew

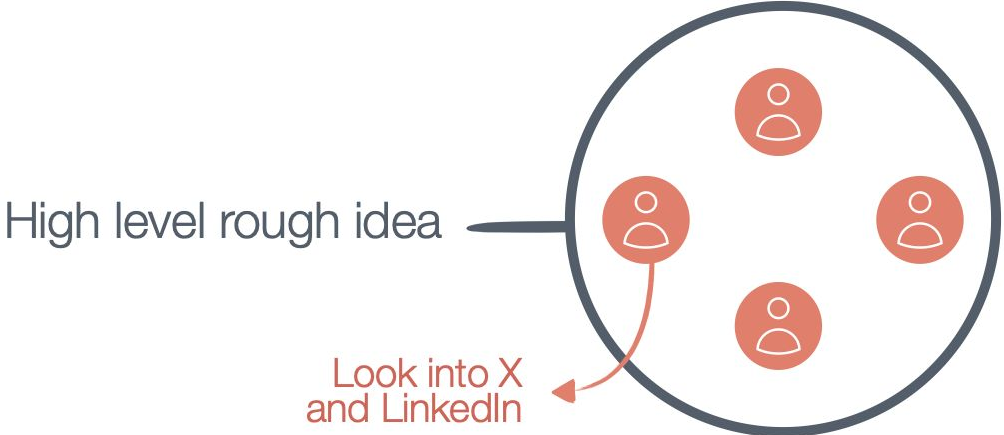


marketing crew

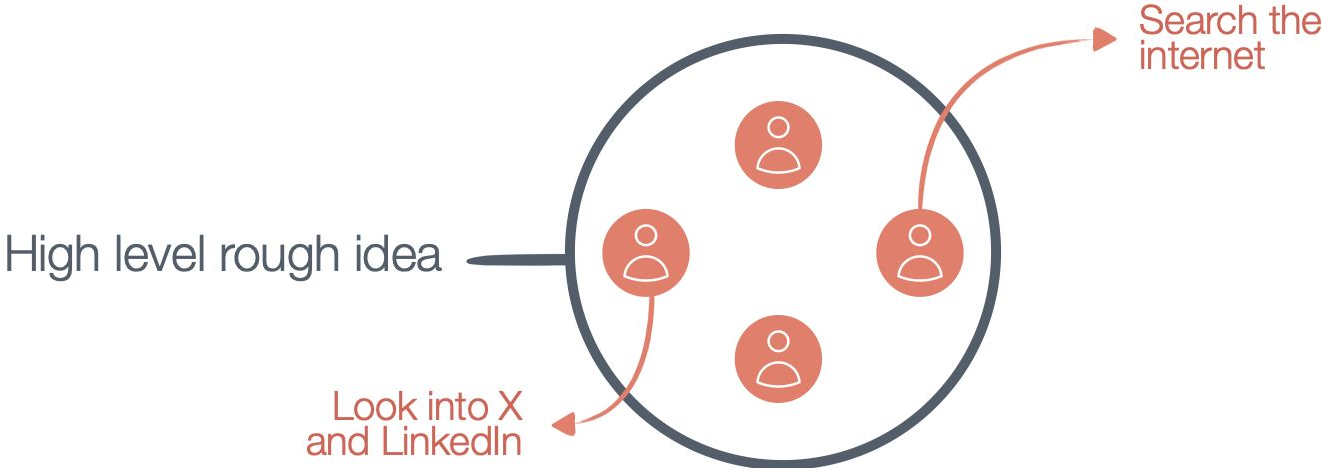
High level rough idea



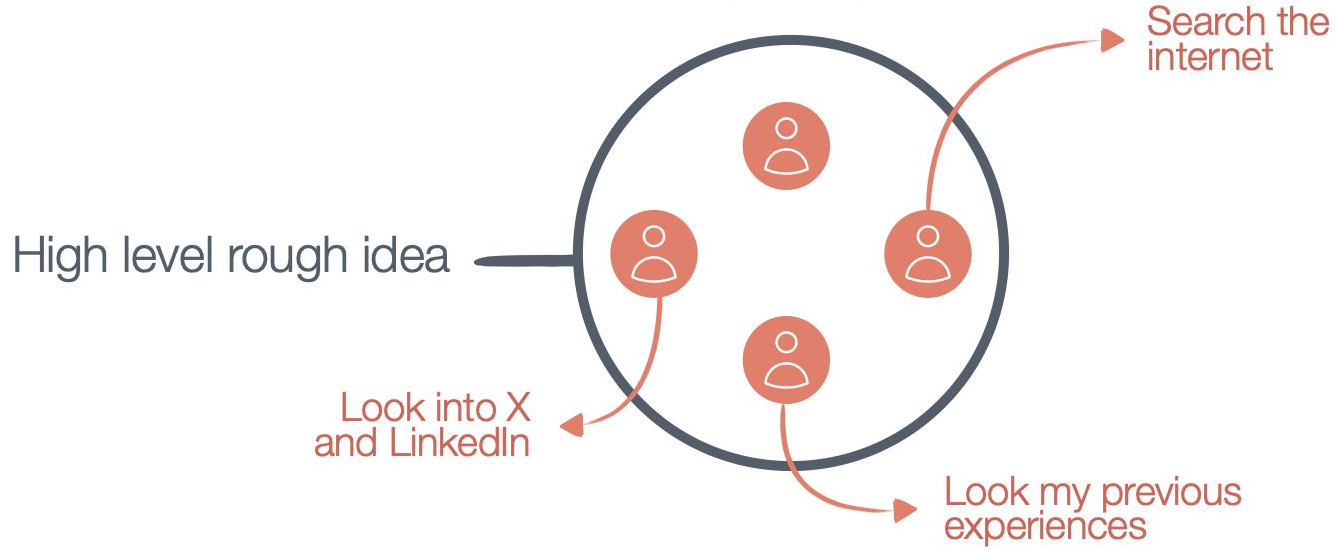
marketing crew



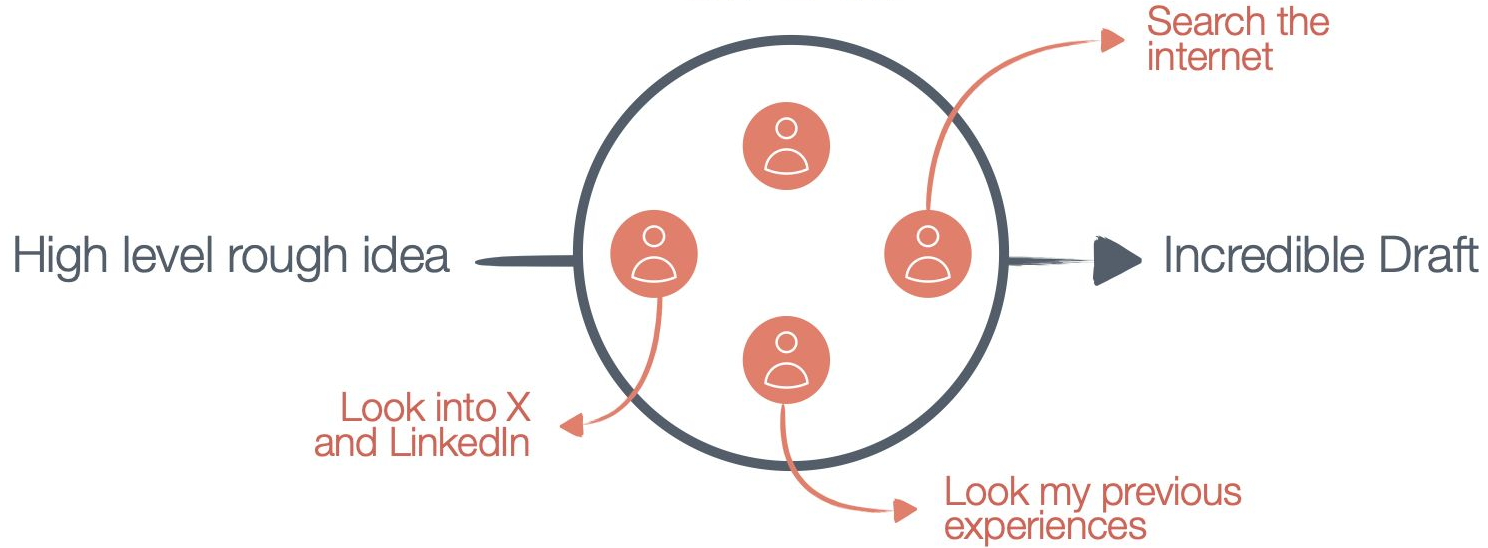
marketing crew



marketing crew



marketing crew

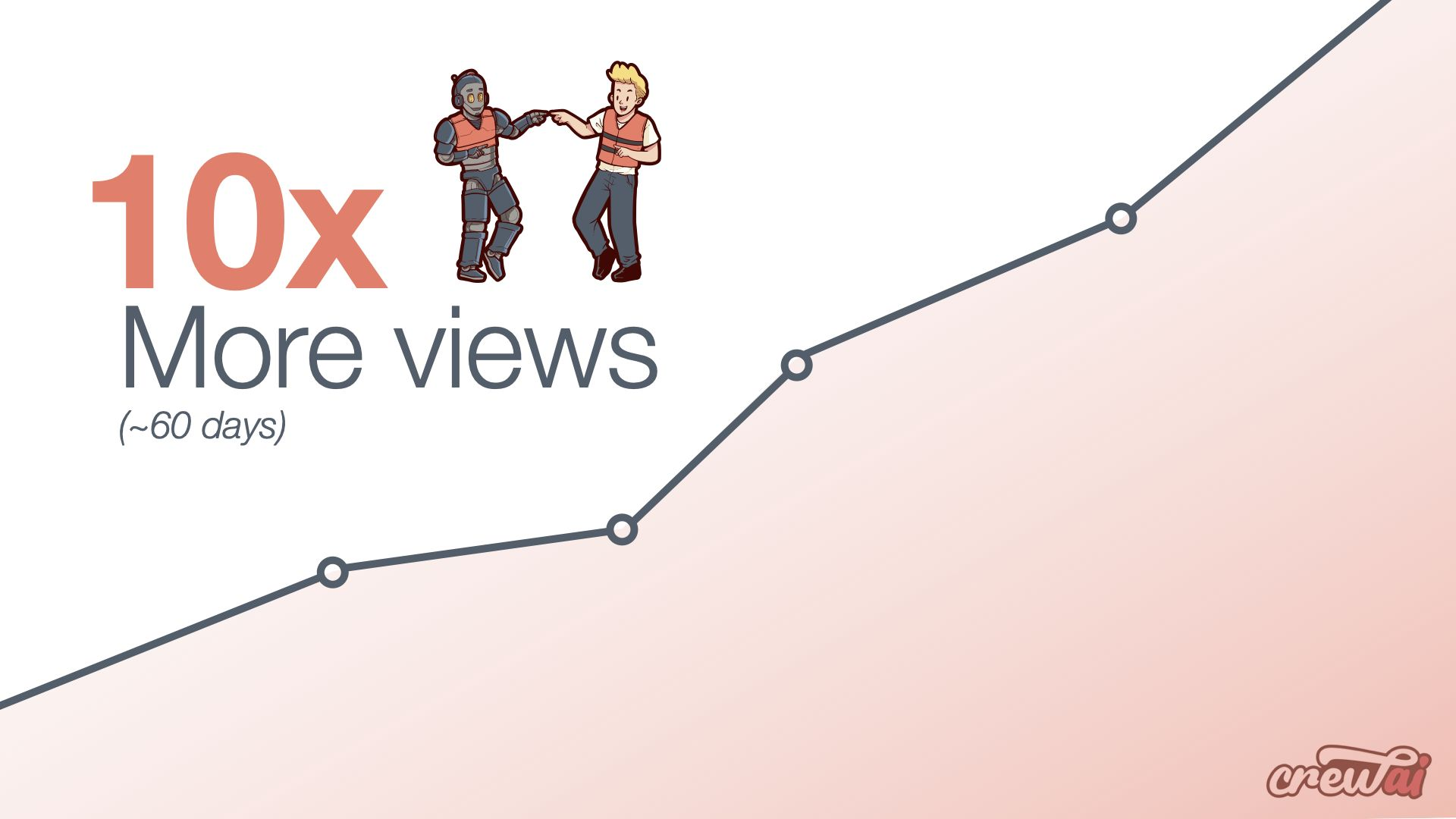


10x



More views

(~60 days)



high impact
low risk

lead qualification **crew**



**Lead Analysis
Expert**



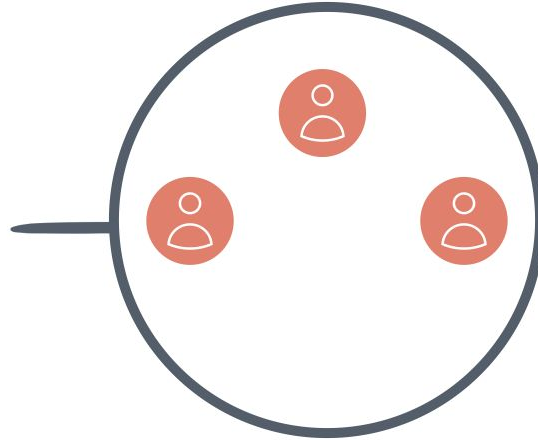
**Industry Research
Specialist**



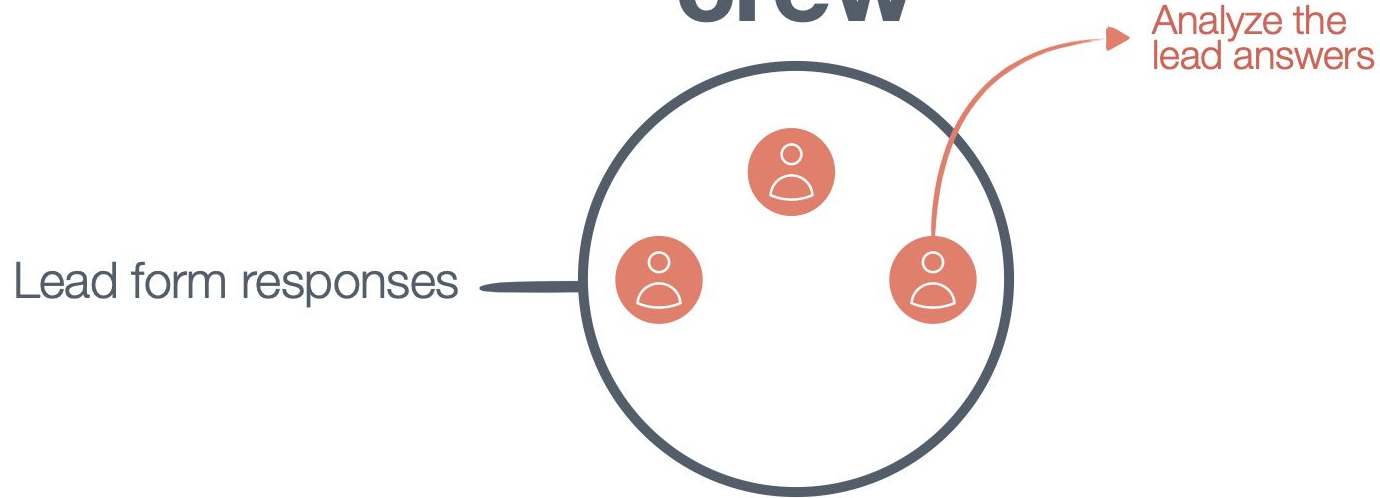
**Lead Strategic
Planner**

lead qualification **crew**

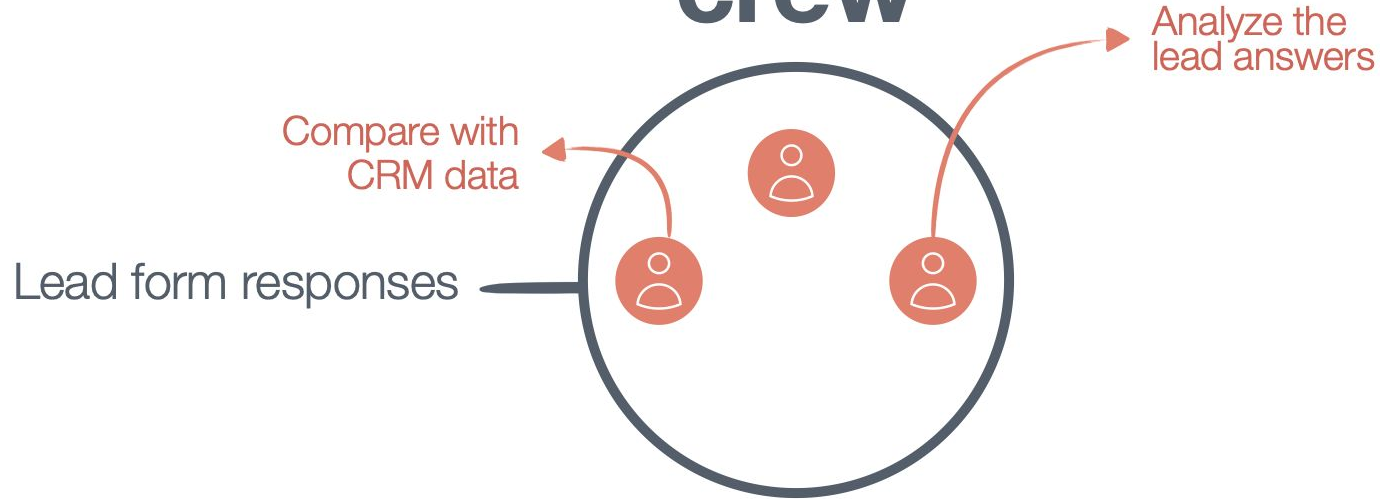
Lead form responses



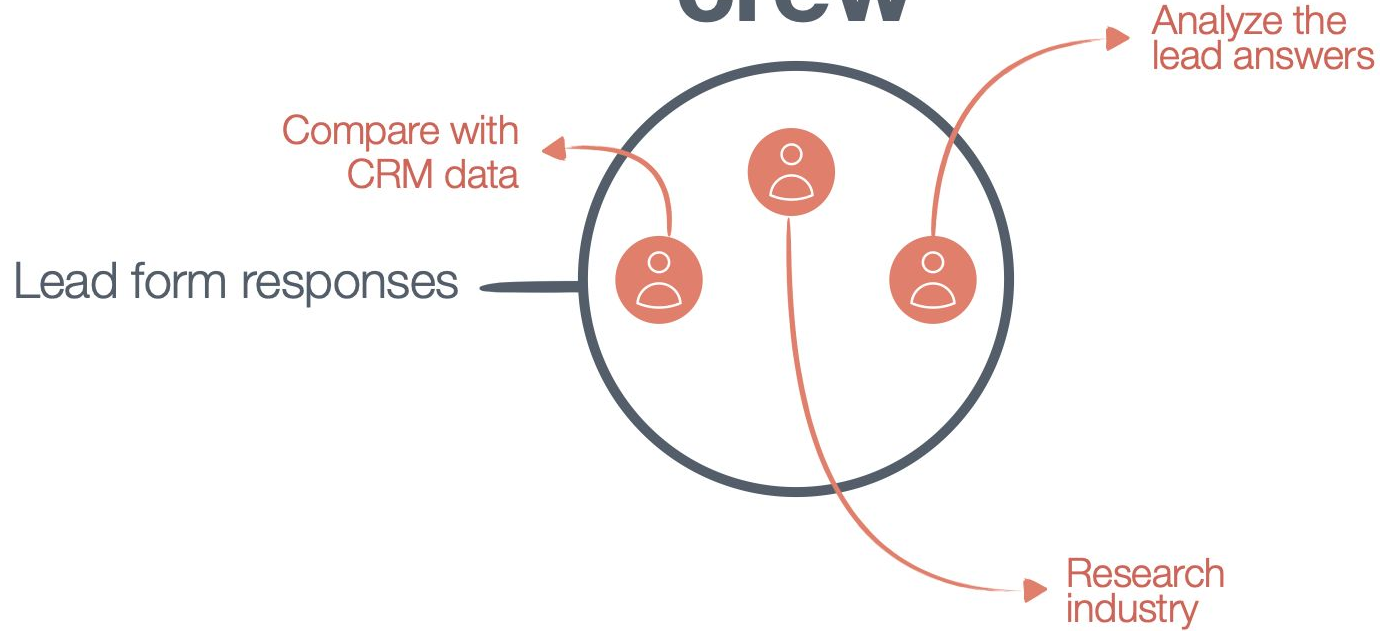
lead qualification crew



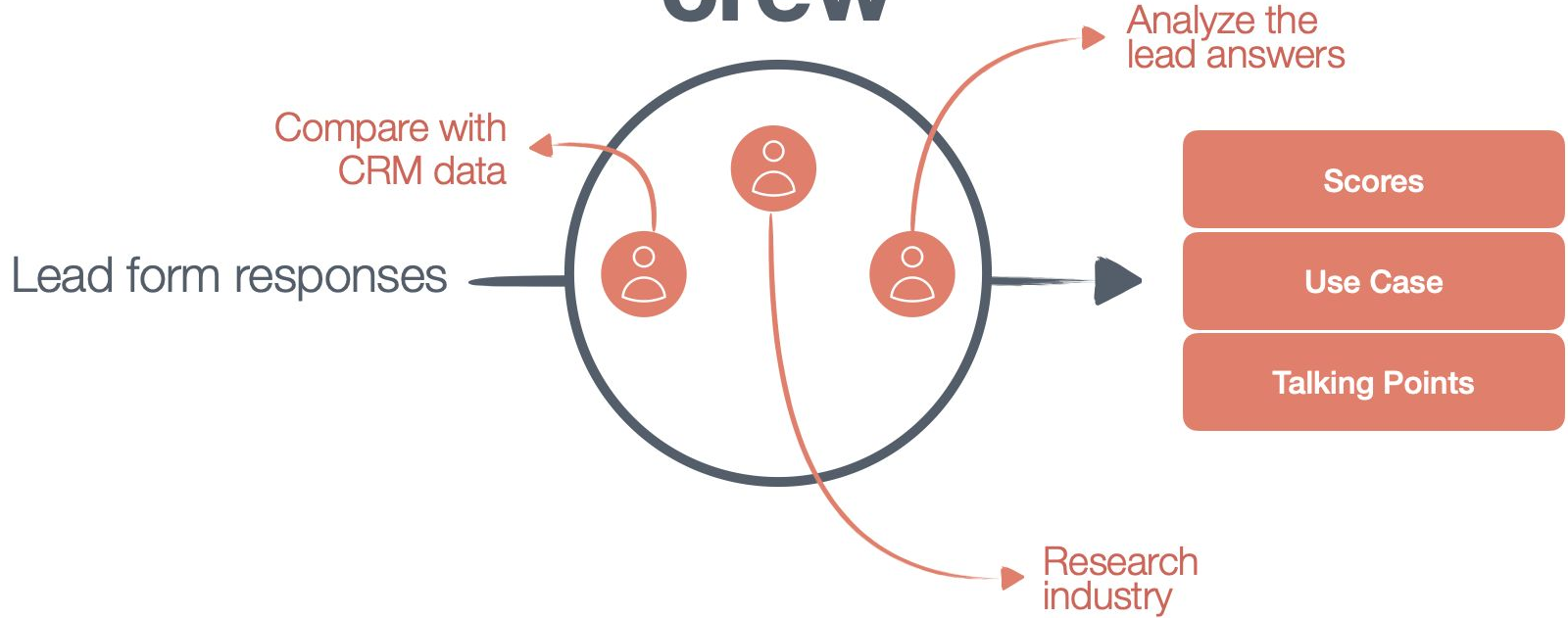
lead qualification crew



lead qualification crew



lead qualification crew



Leonora I					
J	Ted	Sha	Tor	Ca	
F	Rog	Ma	Arr		Jo
S	Fab	Gür	Ma		Jin
H	Jon	Col	Aar		
A	SEB	Fah	Bei		
J	thie	Ed			
A	thie	Tra			
C	Edu	bus	Cal		
b	Nov	10:	Proc		
F	ev	Yar	11:		
T	o		Bi		
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A	Ma	Sha	bus		
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M	6:30				
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G					
N					



200+

customers calls
In 2 week

BUILD TIME



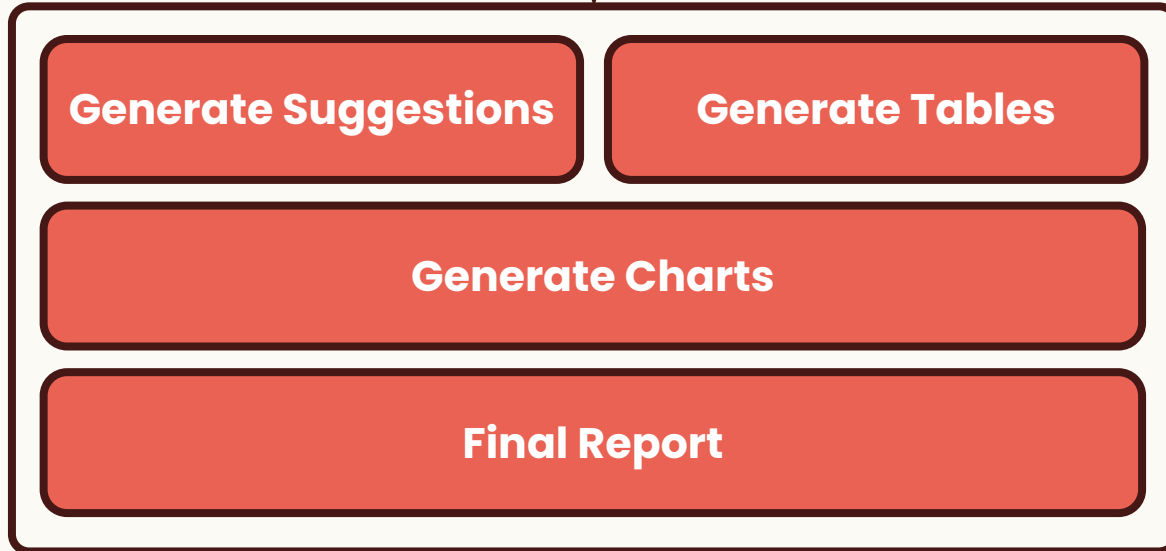
Support Data report

Support Data

Agents



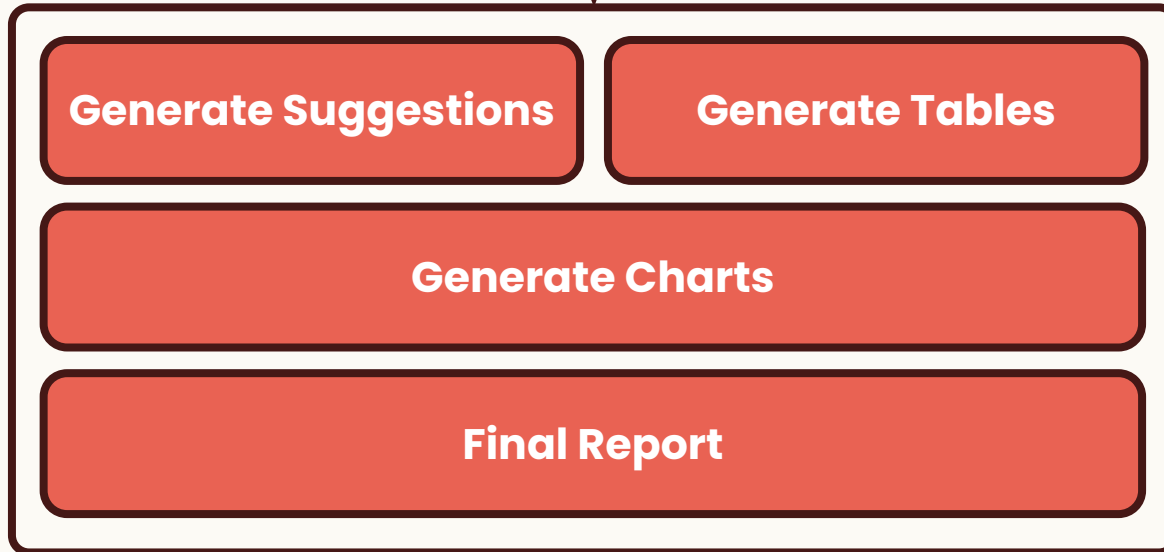
Tasks



Agents



Tasks



Support Data Analysis

- Go over a series of data from support
- Generate suggestions for improvements
- Organize the data into tabular insights
- Plot charts to visualize trends
- Write a full final report on the analysis

support_tickets_data.csv > data

```
ticket_id,customer_id,issue_type,issue_description,priority,date_submitted,response_time_minutes,resolution_time_minutes,satisfaction_rating,customer_comments,agent_
T0001,C0511,API Issue,I'm pleased with how my issue was handled. Thanks!,High,2023-03-25,240,927,4,I'm pleased with how my issue was handled. Thanks!,A004,True
T0002,C0729,Login Issue,Excellent service! The agent went above and beyond.,Low,2023-04-06,223,534,5,The problem still persists. Not resolved yet.,A004,False
T0003,C0439,Report Generation,Resolution was satisfactory but could be improved.,Low,2023-04-25,214,592,1,"The issue was escalated quickly, which was appreciated.",A
T0004,C0100,Data Import,Agent was very helpful and polite. Great service!,High,2023-02-20,110,864,2,The issue was resolved quickly. Very satisfied!,A003,True
T0005,C0258,Feature Request,"My issue was handled well, but follow-up could be better.",Medium,2023-01-18,151,193,2,The problem still persists. Not resolved yet.,A00
T0006,C0526,Data Import,It took too long to resolve the issue. Not happy.,Low,2023-06-10,134,194,2,This is the second time I'm facing this issue. Frustrating!,A002,T
T0007,C0415,Feature Request,It took too long to resolve the issue. Not happy.,High,2023-01-10,64,232,1,The support team was unresponsive at first.,A001,False
T0008,C0602,Login Issue,Resolution was satisfactory but could be improved.,Critical,2023-02-22,132,578,5,Good support but the resolution could have been faster.,A002
T0009,C0934,API Issue,It took too long to resolve the issue. Not happy.,High,2023-06-23,57,46,4,This is the second time I'm facing this issue. Frustrating!,A004,Fals
T0010,C0410,Feature Request,Good support but the resolution could have been faster.,Critical,2023-03-28,223,1230,3,This was a critical issue that took too long to re
T0011,C0966,Report Generation,Agent was very helpful and polite. Great service!,High,2023-03-12,192,1284,2,The issue was ignored for too long. Disappointing.,A001,Fa
T0012,C0342,Billing Issue,Excellent service! The agent went above and beyond.,Low,2023-05-07,35,757,4,The issue was ignored for too long. Disappointing.,A003,True
T0013,C0942,Billing Issue,The issue was ignored for too long. Disappointing.,Critical,2023-02-21,121,738,4,It took too long to resolve the issue. Not happy.,A003,Fal
T0014,C0192,Login Issue,Thank you for resolving my issue quickly.,Low,2023-04-04,129,999,5,Still waiting for a resolution. Not happy with the delay.,A003,False
T0015,C0270,Data Import,The agent understood my problem and solved it efficiently.,High,2023-06-08,33,657,4,This is the second time I'm facing this issue. Frustratin
T0016,C0836,Billing Issue,Thank you for resolving my issue quickly.,High,2023-05-26,213,361,1,This is the second time I'm facing this issue. Frustrating!,A001,False
T0017,C0218,API Issue,I'm pleased with how my issue was handled. Thanks!,Critical,2023-03-06,178,652,4,This is the second time I'm facing this issue. Frustrating!,A0
T0018,C0481,UI Bug,Agent was knowledgeable and solved my issue efficiently.,Medium,2023-06-22,109,278,4,Excellent service! The agent went above and beyond.,A004,True
T0019,C0108,Feature Request,It took too long to resolve the issue. Not happy.,High,2023-04-03,51,293,3,Thank you for resolving my issue quickly.,A005,True
T0020,C0202,Data Import,Agent was very helpful and polite. Great service!,Medium,2023-03-13,55,685,1,Happy with the response time but the resolution was lacking.,A00
T0021,C0863,API Issue,It took too long to resolve the issue. Not happy.,Medium,2023-03-09,145,638,5,The issue was resolved quickly. Very satisfied!,A004,False
T0022,C0447,Report Generation,The problem still persists. Not resolved yet.,High,2023-01-31,112,185,2,Agent was knowledgeable and solved my issue efficiently.,A001,T
T0023,C0386,Data Import,The agent understood my problem and solved it efficiently.,Medium,2023-05-15,149,234,2,Agent was knowledgeable and solved my issue efficientl
T0024,C0928,Data Import,Happy with the response time but the resolution was lacking.,High,2023-05-02,142,932,1,The support team was unresponsive at first.,A003,True
T0025,C0256,UI Bug,This was a critical issue that took too long to resolve.,High,2023-06-06,69,347,3,This is the second time I'm facing this issue. Frustrating!,A001
T0026,C0741,Login Issue,Agent was very helpful and polite. Great service!,Low,2023-06-02,188,865,3,"My issue was handled well, but follow-up could be better.",A004,F
T0027,C0658,UI Bug,Agent was knowledgeable and solved my issue efficiently.,Low,2023-03-08,172,1179,5,Still waiting for a resolution. Not happy with the delay.,A004,
T0028,C0988,UI Bug,"Overall satisfied, but the process could be faster.",Low,2023-01-18,142,1055,4,Excellent service! The agent went above and beyond.,A002,True
T0029,C0304,Login Issue,It took too long to resolve the issue. Not happy.,Critical,2023-05-28,208,719,4,The problem still persists. Not resolved yet.,A004,True
T0030,C0648,Billing Issue,The issue was ignored for too long. Disappointing.,Medium,2023-05-25,15,556,1,This is the second time I'm facing this issue. Frustrating!,A
T0031,C0195,Billing Issue,Agent was knowledgeable and solved my issue efficiently.,High,2023-06-13,105,814,1,Good support but the resolution could have been faster.,
T0032,C0412,Feature Request,Happy with the response time but the resolution was lacking.,High,2023-01-18,43,105,2,It took too long to resolve the issue. Not happy.,A
T0033,C0352,Billing Issue,This is the second time I'm facing this issue. Frustrating!,Low,2023-05-03,170,1189,3,It took too long to resolve the issue. Not happy.,A00)
T0034,C0871,Data Import,The issue was resolved quickly. Very satisfied!,Low,2023-06-17,77,650,3,Thank you for resolving my issue quickly.,A003,False
```



```
suggestion_generation_agent:
```

```
  role: >
```

```
    Suggestion Engine
```

```
  goal: >
```

```
    Generate actionable suggestions for resolving issues identified  
    in the support tickets, leveraging historical data and  
    predefined rules.
```

```
  backstory: >
```

```
    You specialize in analyzing past resolutions and current issues  
    to provide tailored suggestions that can help the support team  
    resolve tickets efficiently.
```

```
  verbose: true
```

```
  allow_delegation: false
```


suggestion_generation:

description: >

Generate actionable suggestions for resolving each classified support ticket.

The suggestions should be based on:

- Issue Type: Tailor suggestions to the specific type of issue reported.
- Historical Data: Use historical data such as resolution_time_minutes and satisfaction_rating to inform the suggestions.
- Customer Feedback: Incorporate insights from customer_comments to customize the suggestions further.

The goal is to provide clear, actionable steps that the support team can take to resolve each issue efficiently and effectively.

expected_output: >

A list of actionable suggestions linked to each classified support ticket, optimized for quick and effective resolution by the support team.

```
# Creating Agents
✓ suggestion_generation_agent = Agent(
    config=agents_config['suggestion_generation_agent'],
    tools=[csv_tool]
)

✓ reporting_agent = Agent(
    config=agents_config['reporting_agent'],
    tools=[csv_tool]
)

✓ chart_generation_agent = Agent(
    config=agents_config['chart_generation_agent'],
    allow_code_execution=True,
    llm=gpt_4o
)
```



```
# Creating Agents
✓ suggestion_generation_agent = Agent(
    config=agents_config['suggestion_generation_agent'],
    tools=[csv_tool]
)

✓ reporting_agent = Agent(
    config=agents_config['reporting_agent'],
    tools=[csv_tool]
)

✓ chart_generation_agent = Agent(
    config=agents_config['chart_generation_agent'],
    allow_code_execution=True,
    llm=gpt_4o
)
```

```
# Creating Tasks
✓ suggestion_generation = Task(
    config=tasks_config['suggestion_generation'],
    agent=suggestion_generation_agent
)

✓ table_generation = Task(
    config=tasks_config['table_generation'],
    agent=reporting_agent
)

✓ chart_generation = Task(
    config=tasks_config['chart_generation'],
    agent=chart_generation_agent
)

✓ final_report_assembly = Task(
    config=tasks_config['final_report_assembly'],
    agent=reporting_agent,
    context=[suggestion_generation, table_generation, chart_generation]
)
```



```
# Creating Tasks
✓ suggestion_generation = Task(
    config=tasks_config['suggestion_generation'],
    agent=suggestion_generation_agent
)

✓ table_generation = Task(
    config=tasks_config['table_generation'],
    agent=reporting_agent
)

✓ chart_generation = Task(
    config=tasks_config['chart_generation'],
    agent=chart_generation_agent
)

✓ final_report_assembly = Task(
    config=tasks_config['final_report_assembly'],
    agent=reporting_agent,
    context=[suggestion_generation, table_generation, chart_generation]
)
```


crewai test



*Tasks Scores
(1-10 Higher is better)*

Tasks/Crew	Run 1	Avg. Total
Task 1	8.0	8.0
Task 2	7.0	7.0
Task 3	9.0	9.0
Task 4	9.0	9.0
Crew	8.25	8.2
Execution Time (s)	214	214

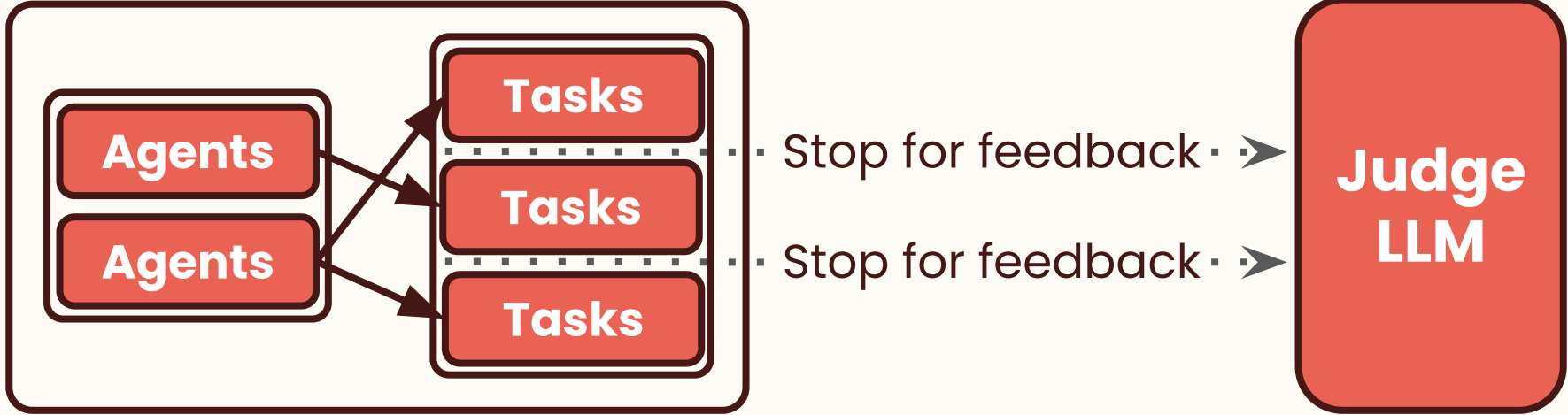
*Tasks Scores
(1-10 Higher is better)*

Tasks/Crew	Run 1	Avg. Total
Task 1	8.0	8.0
Task 2	7.0	7.0
Task 3	9.0	9.0
Task 4	9.0	9.0
Crew	8.25	8.2
Execution Time (s)	214	214

crewai train



Crew



Tasks Scores
(1-10 Higher is better)

Tasks/Crew/Agents	Run 1	Run 2	Run 3	Avg. Total	Agents
Task 1	8.75	9.0	9.0	8.91	- Suggestion Engine
Task 2	9.0	8.0	9.0	8.7	- Report Generator
Task 3	9.0	10.0	9.0	9.3	- Chart Specialist
Task 4	8.0	9.0	9.0	8.66	- Report Generator
Crew	8.25	9.0	9.0	8.75	
Execution Time (s)	141	181	178	166	

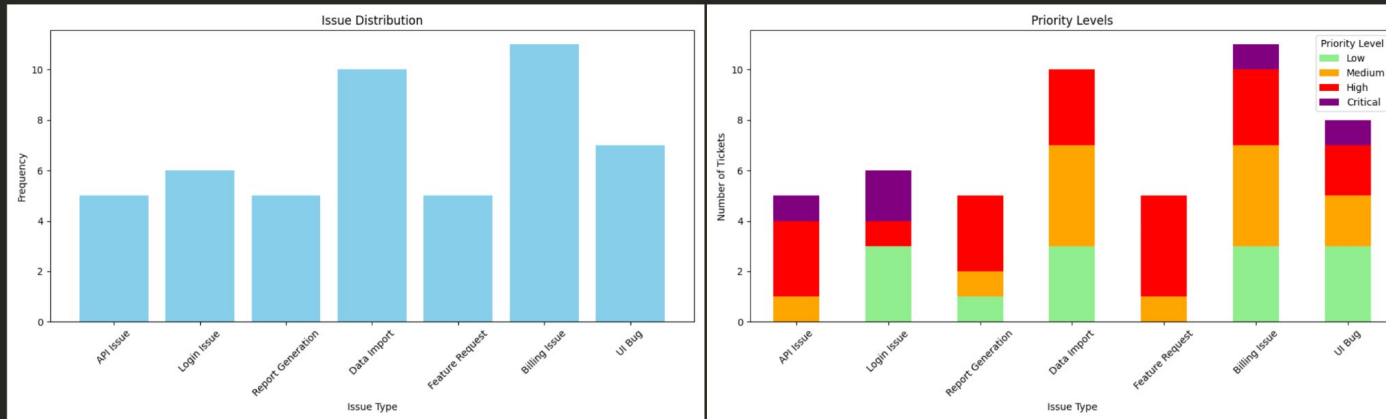
Avg. Total	
8.0	8.91
7.0	8.70
9.0	9.3
9.0	8.66
8.2	8.75
214	166

Comprehensive Support System Report

Issue Classification Results

Overview: The table below provides an overview of the types of issues reported, their frequency, and their priority levels.

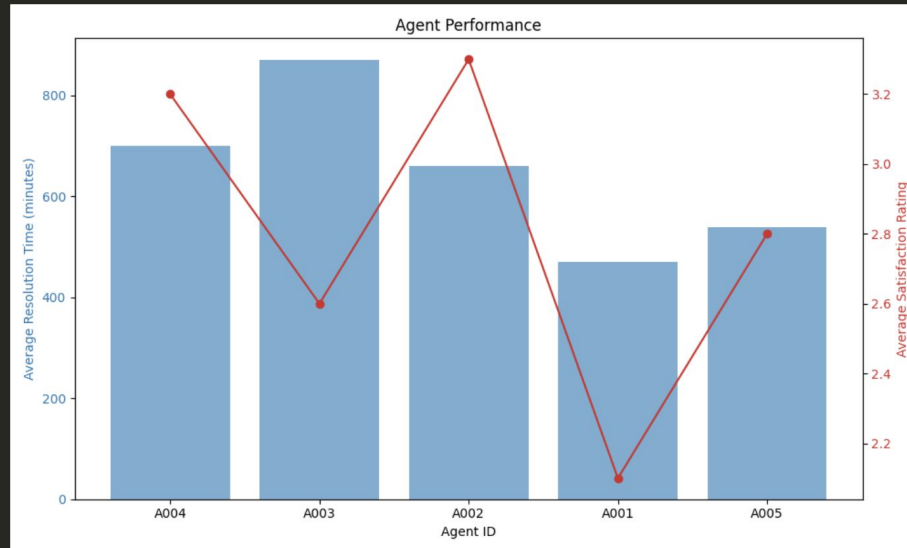
Issue Type	Frequency	Priority Levels (Low, Medium, High, Critical)
API Issue	5	0, 1, 3, 1
Login Issue	6	3, 0, 1, 2
Report Generation	5	1, 1, 3, 0
Data Import	10	3, 4, 3, 0
Feature Request	5	0, 1, 4, 0
Billing Issue	11	3, 4, 3, 1
UI Bug	7	3, 2, 2, 1



Agent Performance

Overview: Insights into the performance of support agents are provided in the table below, based on metrics like resolution time and customer satisfaction.

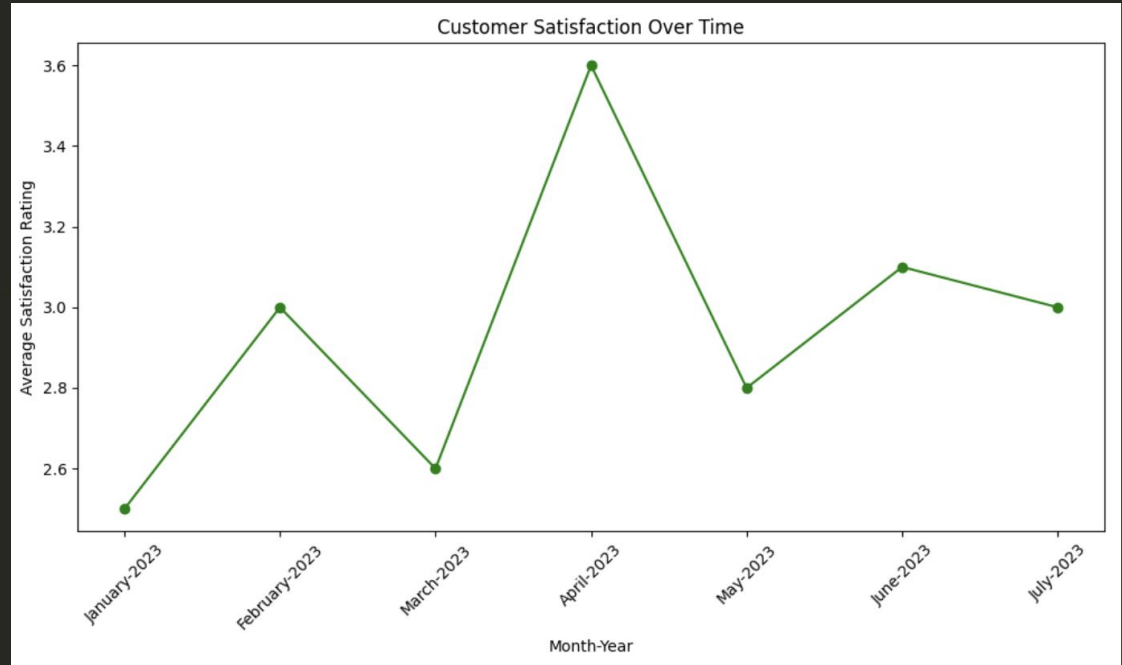
Agent ID	Number of Tickets	Average Resolution Time (minutes)	Average Response Time (minutes)	Average Satisfaction Rating
A004	17	699.2	145.4	3.2
A003	12	869.4	110.5	2.6
A002	10	660.4	144.9	3.3
A001	7	470.1	100.1	2.1
A005	4	538.3	106.0	2.8



Customer Satisfaction Over Time

Overview: The following table summarizes the customer satisfaction ratings and their trends over time.

Time Period (Month-Year)	Average Satisfaction Rating
January-2023	2.5
February-2023	3.0
March-2023	2.6
April-2023	3.6
May-2023	2.8
June-2023	3.1
July-2023	3.0



Suggested Actions

API Issues

- **Tickets:** T0001, T0009, T0017, T0021, T0046
 - **Agents should:** Review the API documentation thoroughly and ensure any updates are communicated to the customers.
 - **Historical Data:** Aim to reduce resolution time by providing clear guidelines and checklists for common API issues.
 - **Customer Feedback:** Regular training on API troubleshooting would be beneficial.

Login Issues

- **Tickets:** T0002, T0008, T0014, T0026, T0029, T0038
 - **Agents should:** Verify user credentials and system logs promptly.
 - **Historical Data:** Address login issues with utmost urgency to improve satisfaction ratings.
 - **Customer Feedback:** Implementing automated scripts to diagnose and solve common login issues can speed up the process.

Report Generation Issues

- **Tickets:** T0003, T0011, T0022, T0037, T0049
 - **Agents should:** Ensure the report generation systems are running smoothly and address any bugs immediately.
 - **Historical Data:** Aim to reduce resolution times by preemptively identifying and fixing common report generation errors.
 - **Customer Feedback:** Regular system maintenance and updates can help reduce delays.

Data Import Issues

- **Tickets:** T0004, T0006, T0015, T0020, T0023, T0024, T0034, T0045, T0047, T0048
 - **Agents should:** Ensure data formats are correct and consistent. Provide clear instructions for data import processes.
 - **Historical Data:** Standardizing data validation processes can help reduce varied resolution times.
 - **Customer Feedback:** Implementing more robust validation checks can improve satisfaction.

Feature Requests

- **Tickets:** T0005, T0007, T0019, T0032, T0041
 - **Agents should:** Collect detailed requirements from customers and communicate timelines effectively.
 - **Historical Data:** Setting clear expectations with customers can improve satisfaction.
 - **Customer Feedback:** Regular updates on the progress of feature requests can help manage expectations.

Billing Issues

- **Tickets:** T0012, T0013, T0016, T0030, T0031, T0033, T0035, T0036, T0040, T0042, T0050
 - **Agents should:** Review billing systems and ensure all transactions are processed correctly.
 - **Historical Data:** Quick resolution of billing issues is crucial to customer satisfaction.
 - **Customer Feedback:** Regular audits and prompt corrections can enhance trust and satisfaction.

UI Bugs

- **Tickets:** T0018, T0025, T0027, T0028, T0043, T0044
 - **Agents should:** Prioritize UI bug fixes and ensure a smooth user experience.
 - **Historical Data:** UI bugs should be resolved quickly to prevent negative customer experiences.
 - **Customer Feedback:** Implementing a streamlined bug reporting and fixing process can improve response times and s



crewtai
NEW FEATURE COMING
NEXT VERSION

deploy





Deploy your crews from GitHub

Update Configuration

Ready to deploy your project? Select a GitHub repository to deploy.

Repository

Branch

Automatically deploy new commits

Add Environment Variable

Bulk Environment Variables

Deploy

crewai-project-0514edfb1cfb73d513fb

URL
<https://crewai-project-0514edfb1cf...>

Bearer Token
[de7e91209833](#) Reset

Re-deploy Delete

abinbev-test

URL
<https://abinbev-test-f15e3a01-60e8...>

Bearer Token
[e91902139895](#) Reset

Re-deploy Delete

project_report

URL
<https://project-report-f8ca6392-31...>

Bearer Token
[ba777e6e46ba](#) Reset

Re-deploy Delete

plan-project-crew

URL
<https://plan-project-crew-f695bb15...>

Bearer Token
[2c595ec7603c](#) Reset

pira_test

URL
<https://pira-test-816b9664-9f58-43...>

Bearer Token
[6f636aee8b16](#) Reset

clay-repo

URL
<https://clay-repo-17eb5eea-d860-4f...>

Bearer Token
[55dbbc294ba7](#) Reset



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Reset

Re-deploy

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plan-project-crew



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crewai-project-
0514edfb1cfb73d513fb



Crew info

URL

<https://crewai-pro>

Bearer Token

[de7e91209833](#)

Re-deploy

Delete

Export React JSX Component

Export React TSX Component



abinbev-test



URL

<https://abinbev-test-f15e3a01-60e8...>

Bearer Token

[e91902139895](#)

Reset

Re-deploy

Delete



project_report



URL

<https://project-report-f8ca6392-31...>

Bearer Token

[ba777e6e46ba](#)

Reset

Re-deploy

Delete



plan-project-crew



URL

<https://plan-project-crew-f695bb15...>

Bearer Token

[e91902139895](#)



pira_test



URL

<https://pira-test-816b9664-9f58-43...>

Bearer Token

[6f636aee8b16](#)

Reset



clay-repo



URL

<https://clay-repo-17eb5eea-d860-4f...>


Bearer Token

[55dbbc294ba7](#)

Reset

Overall Crew Activity





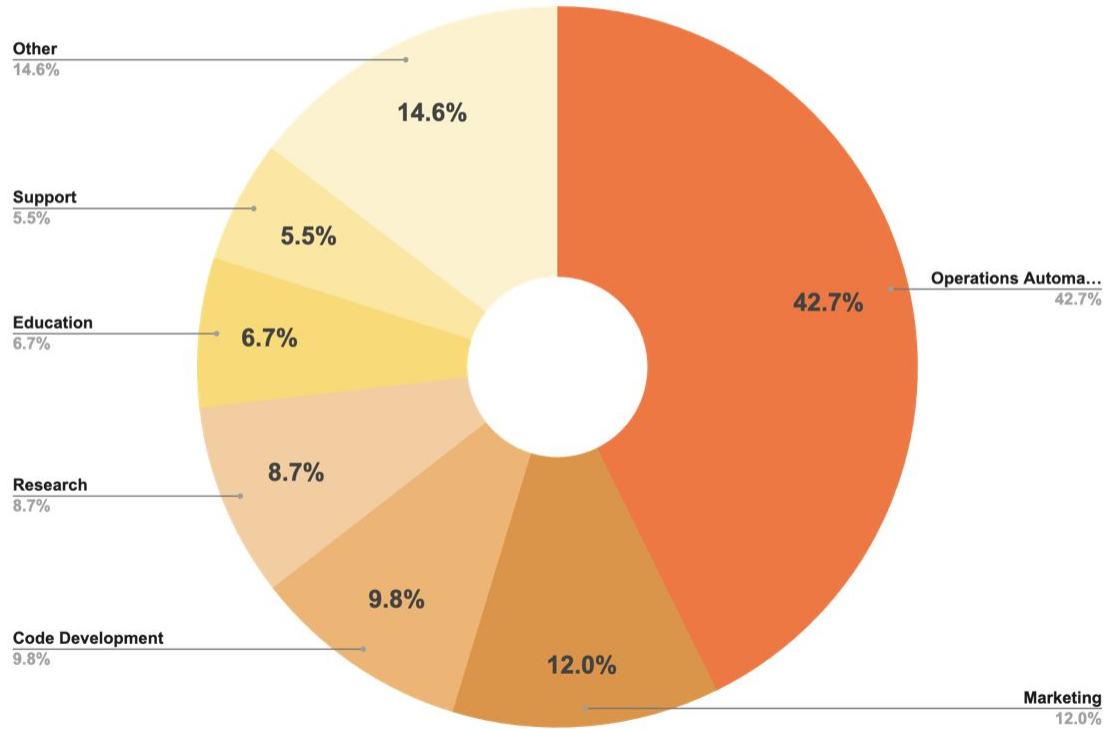
100k

Crews Executed
Daily



crewai

This slide was made by a crew using crewAI



What about the
Future?

○ Genie is not getting back in the bottle

AI will have a bigger impact
than the internet even had!

- Be an early adopter
- Don't wait for others' use cases
- Start simple
- Expand to low risk high impact

CARLYLE



pwc



KPMG

vivo aurecon



HAVAS



H&R BLOCK



Home / Topics / crewAI

What is crewAI?



Explore [crewAI](https://crewai.com) with watsonx.ai →

Subscribe for AI updates →

- Overview
- AI agent (agentic) frameworks
- Agentic system architecture
- How crewAI works
- Connect to any LLM
- crewAI use cases

Published: 2 August 2024
Contributors: Vanna Winland, Meredith Syed, Anna Gutowska

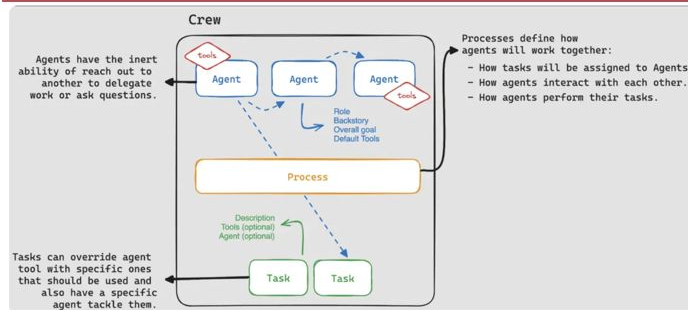
crewAI is an open source multiagent orchestration framework created by João Moura. This Python-based framework leverages [artificial intelligence \(AI\)](#) collaboration by orchestrating role-playing autonomous AI agents that work together as a cohesive assembly or “crew” to complete

White paper
[Why AI governance is a business imperative for scaling enterprise](#)



and return computed results.

Supercharge investment analysis with MongoDB and CrewAI



(image from [LangChain Blog](#) | [CrewAI: The Future of AI Agent Teams](#))

The MongoDB aggregation pipeline gives us the data we need to analyze. When you can extract meaningful insights from raw data faster, you can make better investment decisions. [CrewAI](#), combined with MongoDB Atlas, provides a unique approach that goes beyond basic number-crunching to deliver actionable insights.

For this example, we will create an Investment Researcher agent. This agent finds valuable data using tools like search engines. It's designed to identify financial trends, company news, and analyst insights. Learn more about creating agents using [CrewAI](#).

Unlocking the power of AI collaboration:

Table of Contents

sample_analytics.transactions

The task: uncover hidden opportunities

The solution: MongoDB's aggregation framework

Supercharge investment analysis with MongoDB and CrewAI

Unlocking the power of AI collaboration: agents, tasks, and tools

Agents and tasks: working together as a crew

Fine-tuning your Investment Researcher

Limitations and considerations

Conclusion

Principal Research Scientist, Futures Design

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- Demonstrated track record of peer-reviewed scientific publications that advance state-of-the-art for applied science
- Deep and broad expertise in state-of-the-art generative AI methodologies, such as building simulacra with frameworks like Autogen, [CrewAI](#), or ChatDev
- Experience with structured (e.g. knowledge graphs) and/or unstructured knowledge sources
- Track record of solving complex technical problems
- Exhibits excellent business judgment; balances business, product, and technology very well
- Experience working with real-world data sets and building scalable models from large-scale data

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Senior Data Scientist

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- customer and revenue growth)
- 2+ years experience with a fast-growing SaaS business based company is preferred.
- Strong experience in scientific computing using Python.
- Experience with Spark, SQL, Tableau, Google Analytics, BigQuery (or any other Big data/Cloud equivalent) etc.
- Experience working with and processing structured, unstructured, and semi-structured data.
- Strong cross-functional collaboration experience with data engineering and data analysts teams within the function.
- Proven track record of applying data insights and machine learning in order to address business needs and drive revenue.
- Proficiency in large language models and the frameworks (Langchain, Llamaindex, [CrewAI](#), etc.) necessary for implementing GenAI applications, such as chatbots and related use cases.
- Strong communication and presentation skills catered to different audiences within the company.
- Capable of working closely with business, engineering, and product teams to ensure data



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Multi Agent



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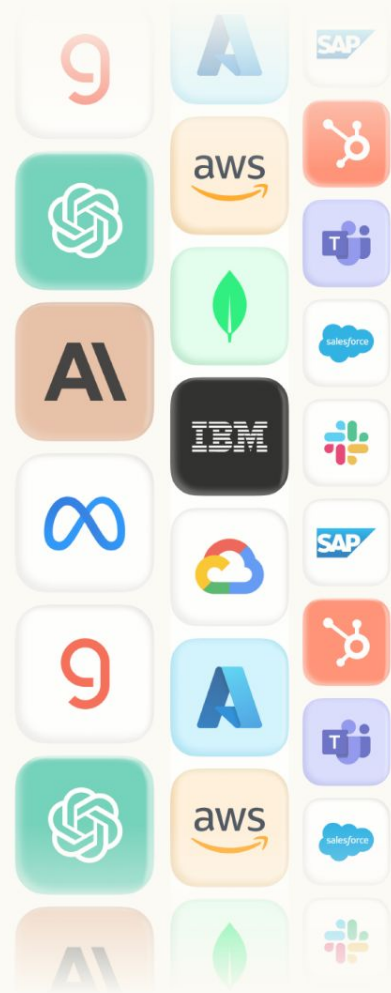
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The Leading
Multi-Agent Platform



Research

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Reporting

Existing Systems

Research

Analysis

Summary

Reporting

Existing Systems

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Research

Documents

Internet

CRM

Analysis

Compare

Extract

Infer

Existing Systems

Research

Documents

Internet

CRM

Analysis

Compare

Extract

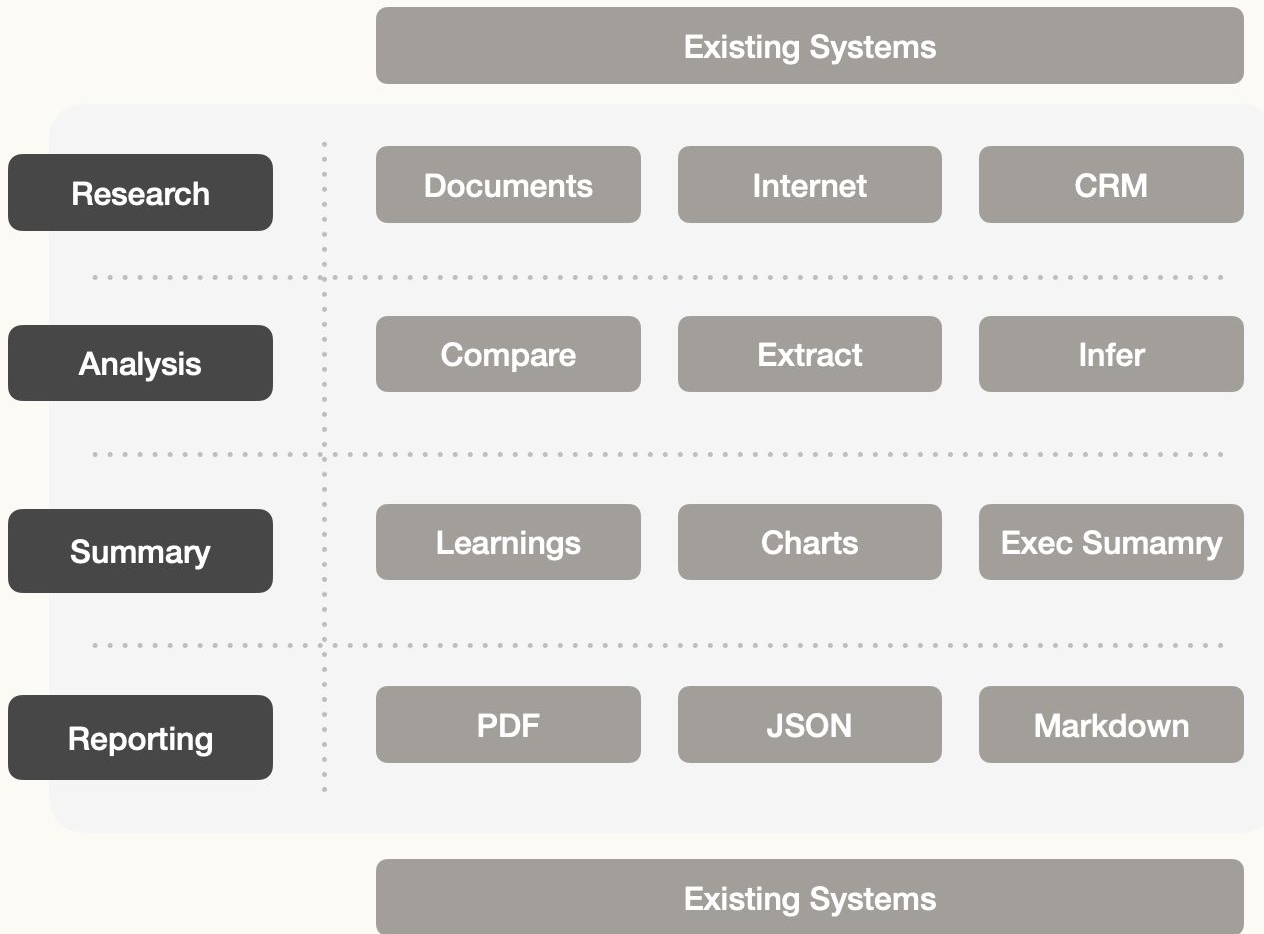
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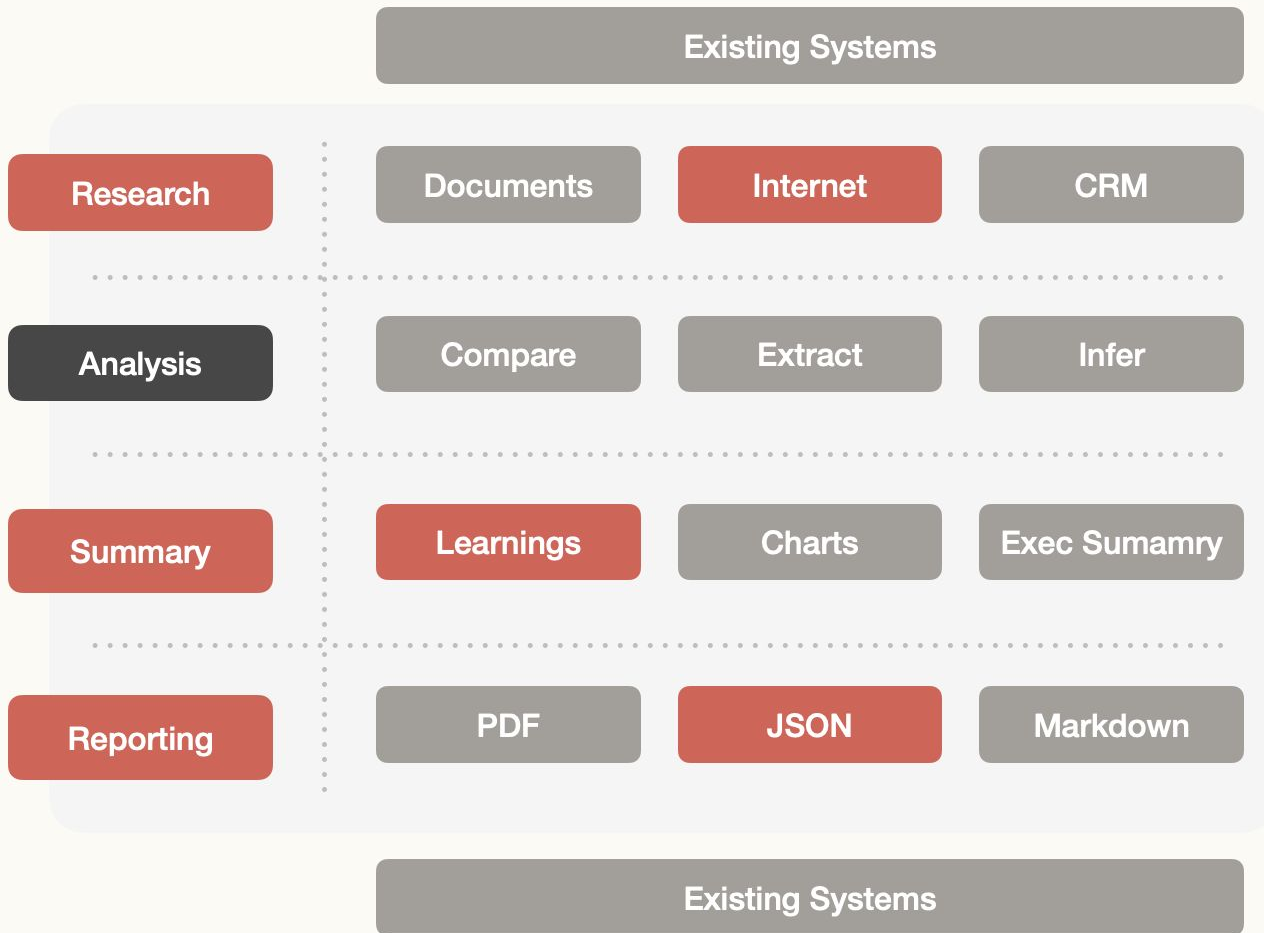
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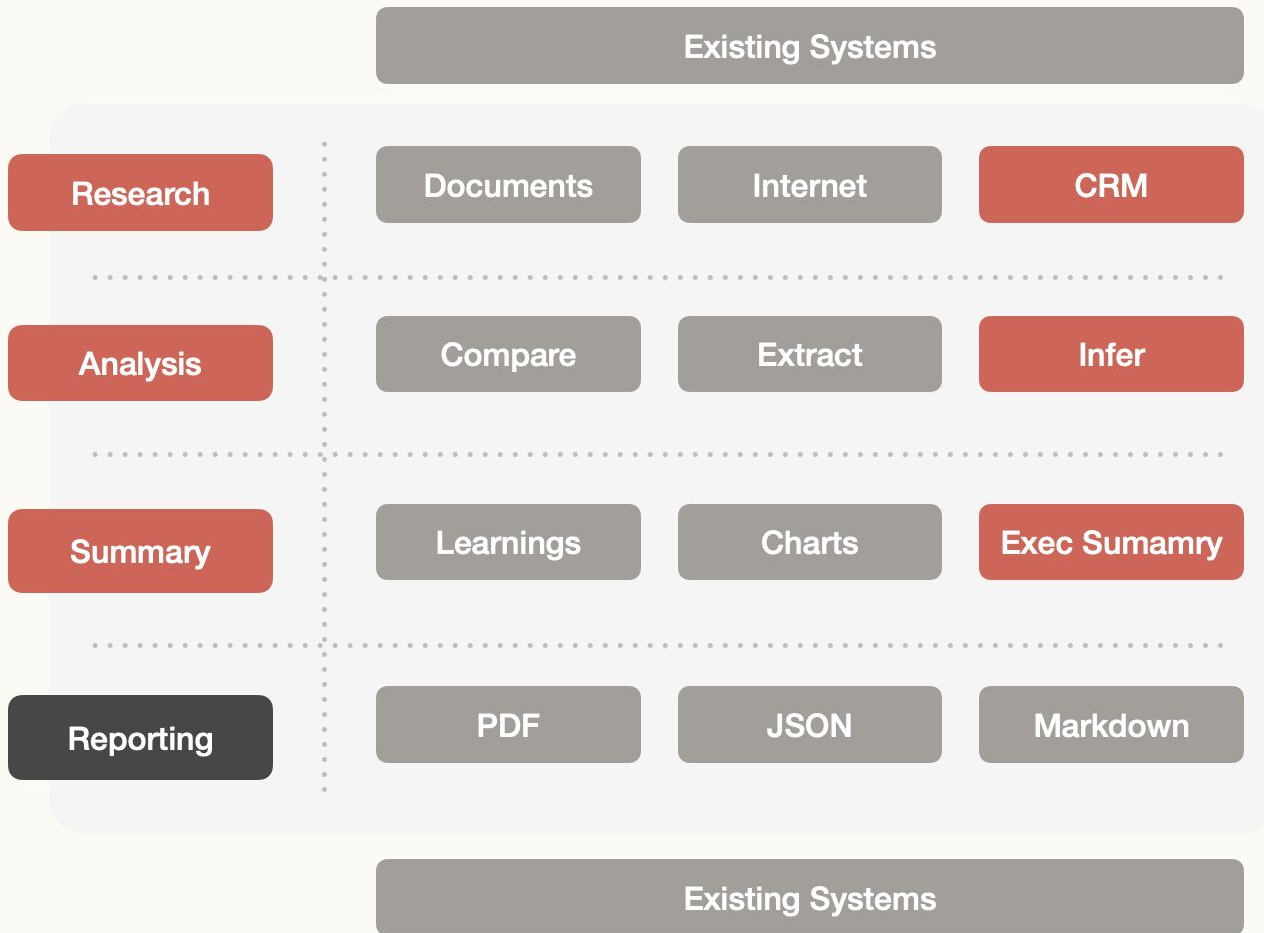
Learnings

Charts

Exec Sumamry









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