```
✓ Hide unchanged cells | Trust outputs |
                                            Export diff
                                Close tool
Base
                                                                  Remote
                                                    2 unchanged cell(s) hidden
In []:
                             Cell ID: 04657f00
                                                               In [1]:
                                                                                            Cell ID: 04657f00
   (...7 unchanged lines...)
                                                                      (...7 unchanged lines...)
 8 from crewai import Flow
                                                                    8 from crewai import Flow
 9 from crewai.flow.flow import listen, start
                                                                   9 from crewai.flow.flow import listen, start
                                                                   10 import pandas as pd
10
                                                                   11 import textwrap
11 import time
                                                                   12 import time
                                                                   13
   (...17 unchanged lines...)
                                                                      (...17 unchanged lines...)
   Outputs unchanged
                                                    7 unchanged cell(s) hidden
In [6]:
                Cell ID: ad39d218-6727-4055-8ea7-c1610631f4ab
                                                               In [5]:
                                                                               Cell ID: ad39d218-6727-4055-8ea7-c1610631f4ab
1 import warnings
2
3 warnings.filterwarnings(
4
       "ignore",
       message=".*PydanticDeprecatedSince20: Using extra keyword arguments on `Field` is deprecated.*",
5
6)
7 from crewai_tools import SerperDevTool, ScrapeWebsiteTool
   Outputs changed
                                                                                                                       Output added
/Users/prasanth.thangavel/miniconda3/envs/py_3_12_crewai/lib/python3.12/site-packages/pydantic/fields.py:1093: Pydanti
                                                    1 unchanged cell(s) hidden
In [7]:
                Cell ID: 57e0ba2e-a86a-4a20-ab38-62eb89abdf57
                                                               In [6]:
                                                                               Cell ID: 57e0ba2e-a86a-4a20-ab38-62eb89abdf57
 1 # Creating Agents
 2 lead_data_agent = Agent(
        config=lead_agents_config["lead_data_agent"],
 3
 4
        tools=[SerperDevTool(), ScrapeWebsiteTool()],
 5)
 6
 7 cultural_fit_agent = Agent(
        config=lead_agents_config["cultural_fit_agent"],
 8
 9
        tools=[SerperDevTool(), ScrapeWebsiteTool()],
10)
11
12 scoring_validation_agent = Agent(
13
        config=lead_agents_config["scoring_validation_agent"],
14
        tools=[SerperDevTool(), ScrapeWebsiteTool()],
15 )
16
17 # Creating Tasks
18 lead_data_task = Task(
        config=lead_tasks_config["lead_data_collection"], agent=lead_data_agent
19
20)
21
22 cultural_fit_task = Task(
        config=lead_tasks_config["cultural_fit_analysis"], agent=cultural_fit_agent
23
24 )
25
26 scoring_validation_task = Task(
27
        config=lead_tasks_config["lead_scoring_and_validation"],
        agent=scoring_validation_agent,
28
29
        context=[lead_data_task, cultural_fit_task],
30
        output_pydantic=LeadScoringResult,
31 )
33 # Creating Crew
34 lead_scoring_crew = Crew(
35
        agents=[lead_data_agent, cultural_fit_agent, scoring_validation_agent],
36
        tasks=[lead_data_task, cultural_fit_task, scoring_validation_task],
37
        verbose=True,
38 )
```

# 21 self.state["score\_crews\_results"] = scores self.state["score\_crews\_results"] = scores 23 22 return scores 24 return scores (...23 unchanged lines...) (...23 unchanged lines...) Outputs changed **Starting Flow Execution** Starting Flow Execution Name: SalesPipeline Name: SalesPipeline ID: 493fbfef-291d-4bcf-940d-daa097380891 ID: b11d02c2-e14b-4db0-aa77-a6cfee9bc66c Tool Args: Tool Args:

### 1 unchanged cell(s) hidden

```
In [12]:
                                                              In [9]:
                 Cell ID: 3c90a3f2-3bc1-446b-beff-4a02d84e72dd
                                                                              Cell ID: 3c90a3f2-3bc1-446b-beff-4a02d84e72dd
 1 flow.plot()
 2
 4 def save_flow_plot_screenshot(html_file: str, screenshot_file: str):
 5
 6
       Takes a screenshot of a rendered HTML file using a headless Chrome browser.
 7
 8
       Args:
 9
            html_file (str): Path to the HTML file to render and capture.
10
            screenshot_file (str): Path where the screenshot image will be saved.
11
12
       This function uses Selenium with a headless Chrome browser to open the specified
13
       HTML file, waits for the page to fully render, and saves a screenshot to the given file.
14
15
       from selenium import webdriver
       from selenium.webdriver.chrome.options import Options
16
17
       import time
       import os
18
19
       # Set up headless Chrome
20
       options = Options()
21
```

```
22
       options.headless = True
23
       options.add_argument("--window-size=1200,1200")
24
       driver = webdriver.Chrome(options=options)
25
26
       # Load the HTML file
       driver.get("file://" + os.path.abspath(html_file))
27
28
       time.sleep(2) # Wait for the page to fully render
29
       # Save screenshot
30
31
       driver.save_screenshot(screenshot_file)
32
       driver.quit()
33
34
35 save_flow_plot_screenshot(
36
       html_file="crewai_flow.html", screenshot_file="crewai_flow.png"
   Outputs unchanged
In [ ]:
                            Cell ID: fc1f65f5
                                                             In [10]:
                                                                                          Cell ID: fc1f65f5
 1 def display_html_file(file_path, width="100%", height=800, border="1px solid #ccc"):
 2
 3
       Display an HTML file in Jupyter notebook using iframe.
 4
 5
       Parameters:
 6
 7
       file_path : str
 8
           Path to the HTML file (relative or absolute)
       width : str, optional
 9
10
           Width of the container (default: "100%")
       height: int or str, optional
11
12
           Height of the container in pixels (default: 800)
13
       border: str, optional
14
           CSS border style (default: "1px solid #ccc")
15
16
       Returns:
17
18
       None (displays the HTML directly)
```

1920

2122

23

24

2526

27

28 29

30 31

32

3334

35

36

37

38

39

40

41

42

43 44 45

46 47

48 49 50 # Check if file exists

return

try:

if not os.path.exists(file\_path):

# Read the HTML file

modified\_html = f"""

</iframe>

except Exception as e:

52 display\_html\_file("./crewai\_flow.html")

</div>

51 # Usage examples:

Outputs unchanged

1 start\_time = time.time()

In [21]:

html\_content = f.read()

# Create the iframe wrapper

display(HTML(modified\_html))

53 # display\_html\_file("./crewai\_flow.html", height=600)

width="100%"

height="100%"

frameborder="0">

print(f"Error reading or displaying file: {e}")

54 # display\_html\_file("./crewai\_flow.html", width="80%", height="500px")

Cell ID: 4f00316a-7d09-4533-af24-0842366e122f

print(f"Error: File '{file\_path}' not found.")

with open(file\_path, "r", encoding="utf-8") as f:

# Handle height parameter (convert to string if it's a number)

<iframe srcdoc='{html\_content.replace("'", "&apos;")}'</pre>

height\_str = f"{height}px" if isinstance(height, int) else height

<div style="width: {width}; height: {height\_str}; border: {border};">

1 unchanged cell(s) hidden

In [16]:

Cell ID: 4f00316a-7d09-4533-af24-0842366e122f

```
3 end_time = time.time()
     3n+/4HE1a
   Outputs changed
Output deleted
                                                              Output added
    Flow started with ID: b11d02c2-e14b-4db0-a
                                                                   Flow started with ID: 493fbfef-291d-4bcf-9
                                                                     Crew Execution Started
      Crew Execution Started
                                                                     Name: crew
      Name: crew
      ID: 5c490a11-507b-44ce-8eb0-7744a1911b7a
                                                                     ID: 6c95b5da-4b7f-46df-aaf6-22876afc97c8
      Tool Args:
                                                                     Tool Args:
                                                                  – 🕯 Agent Started ——
                  Agent: Lead Data Specialist
                  Task: Collect and analyze the following information about the lead:
                  - Personal Information:
                    - Name: Obtain the full name of the lead.
                    - Job Title: Determine the lead's current job title.
                    - Role Relevance: Assess how relevant the lead's role is to the decision-m
                  to 10.
                    - Professional Background: Optionally, gather a brief description of the l
                  - Company Information:
                    - Company Name: Identify the name of the company the lead works for.
                    - Industry: Determine the industry in which the company operates.
                    - Company Size: Estimate the size of the company in terms of employee coun
                    - Revenue: If available, collect information on the annual revenue of the
                    - Market Presence: Evaluate the company's market presence on a scale from
                  - Our Company and Product:
                    - Company Name: CrewAI
                    Product: Multi-Agent Orchestration Platform
                    - ICP: Enterprise companies looking into Agentic automation.
                    - Pitch: We are a platform that allows you to orchestrate AI Agents for au
                  -Lead Data:
                    {'name': 'João Moura', 'job_title': 'Director of Engineering', 'company':
                  'joao@clearbit.com', 'use_case': 'Using AI Agent to do better data enrichmen
                                                                     Agent: Lead Data Specialist
      Agent: Lead Data Specialist
       Thought: I need to gather information at
                                                                     Thought: I will start by gathering compa
       information about his company, Clearbit.
      revenue, and market presence.
                                                                     Using Tool: Search the internet with Sea
      Using Tool: Search the internet with Ser
      "{\"search_query\": \"Clearbit company
                                                                     "{\"search_query\": \"Clearbit company
Output deleted
                                                               Output added
      {'searchParameters': {'q': 'Clearbit con 'search', 'num': 10, 'engine': 'google'} customers in 2023.', 'link': 'https://ge
                                                                     {'searchParameters': {'q': 'Clearbit cor
10, 'engine': 'google'}, 'organic': [{'1
                                                                      'https://clearbit.com/attributes', 'snip
```

enable marketing personalization with ov

2 emails = await flow.kickoff\_async()

revenue reached \$31.5M up from \$41.4M ir

Since its launch in 2015, Clearbit has s and increasing adoption across various i attributes - Clearbit', 'link': 'https:/ manage leads efficiently, and enable mar 'position': 2}, {'title': 'Fit: firmogra 'https://clearbit.com/resources/books/b2 company information, like size, type, ir for your product or service.', 'position Enlyft', 'link': 'https://enlyft.com/tec Clearbit is most often used by companies 3 years and 8 ...', 'position': 4}, {'ti 'link': 'https://growjo.com/company/Clea estimated annual revenue is currently \$1 March 2019.", 'position': 5}, {'title': 'link': 'https://www.zoominfo.com/c/clea 6}, {...

Overview, News & Similar companies | Zoc 'snippet': 'Headquarters. 90 California (866) 241-4820 ; Website. www.clearbit.c firmographic and employment data - Clear 'https://clearbit.com/resources/books/b2 company information, like size, type, ir for your product or service.', 'position Growjo', 'link': 'https://growjo.com/cor Clearbit's estimated annual revenue is d funding in March 2019.", 'position': 4} Tracxn', 'link': 'https://tracxn.com/d/ 'snippet': 'It operates as a Business Ir raised \$2M in funding. The company has 2 and its marketshare - Enlyft', 'link': most often used by companies with 10-50 goes back as far as...

Agent: Lead Data Specialist

Thought: Thought: I have gathered inform need to extract relevant details regardi

Using Tool: Read website content

"{\"website\_url\": \"https://getlatka.co

Agent: Lead Data Specialist

Thought: Next, I will extract the relevant Thought: I need to summarize the company

Using Tool: Read website content

"{\"website\_url\": \"https://www.zoomin

#### Output deleted

How Clearbit hit \$31.5M revenue and 907 Scroll up to return Create Free Account Sign up to access all features Create Account Sign up Sign up Already have an account? Log in Research with LatkaAI New Prompt with confidence that source data Largest SaaS database Search 57.7K+ companies by revenue, fund Export company data to Excel 28 SaaS metrics including ARPU, CAC, LT\ Hard-to-get data We interview founders to get valuations, SaaS Database Magazine Community Podcast Blog Pricing Latka AI Login Get Started SaaS Database Magazine Community Podcast Blog Pricing Login Get Started Clearbit 90 Sheridan St, San Francisco, Californi Download Excel Model About Company Revenue Funding Team Customers Contacts How Clearbit hit \$31.5M revenue and 907 Clearbit is a data intelligence company intelligence and marketing data solution leader in the data intelligence industry generate leads, and personalize marketir Clearbit Enrichment, Clearbit Reveal, Cl

businesses of all sizes and industries a

### Output added

Clearbit - Overview, News & Similar comp Products Sales Contact & Company Search Cross-Channel Advertising Buyer Intent 1 Data Management Data Enrichment API & We integrations Top Companies Our Data Indu Contact Sales Sign Up Clearbit Business Info for Free Overview Headquarters 90 ( 241-4820 Website www.clearbit.com Revenu IT Services Customer Relationship Manage interest in procuring solutions related (M&A) Clearbit has entered into an agree Funding Amount \$15M Most Recent Funding Similar Companies Company Insights News to help companies find more information headquartered in San Francisco, Californ this data correct? View contact profiles Clearbit's Co APIHub Inc SIC Code 73,737 Phone Email Harlow Ward Chief Technology uncover key details. Access More Details Engin...

powerful features, and flexible deployme 2015 Founded \$31.5M 2023 Revenue -23.94% YOY \$38.5M Funding Clearbit Revenue In 2023, Clearbit's revenue reached \$31. 2022, \$3.4M in 2021. Since its launch ir consistent revenue growth, reflecting i

Agent: Lead Data Specialist

Final Answer:

Personal Information:

- Name: João Moura

Job Title: Director of Engineering

- Role Relevance: 8/10 (The Director of related to technology and automation, wh - Professional Background: João Moura ha focusing on data enrichment and automati

Company Information:

- Company Name: Clearbit

- Industry: Data Intelligence

Company Size: Approximately 120 employ

- Revenue: \$31.5 million (as of 2023)

Market Presence: 8/10 (Clearbit is red has a significant user base across varid

Our Company and Product:

- Company Name: CrewAI

Product: Multi-Agent Orchestration Pla

ICP: Enterprise companies looking into

Pitch: We are a platform that allows y

Agent: Lead Data Specialist

Final Answer:

Personal Information:

- Name: João Moura Job Title: Director of Engineering

- Role Relevance: 9 (as a Director of Er especially regarding technology and auto - Professional Background: João Moura ha leading the development of AI integration

Company Information:

- Company Name: Clearbit

Industry: Business Services, Software

Company Size: Approximately 104 employ

- Revenue: \$20 Million (reported annual)

- Market Presence: 7 (Clearbit has estat currently being acquired by HubSpot, inc

Task Completed

Name: e4fe3a93-4a56-4365-8754-f79b5c15c6

Agent: Lead Data Specialist

Tool Args:

Task Completed

Name: 931b6ab3-300c-47f7-b891-cff8f4c160

Agent: Lead Data Specialist

Tool Args:

— 🎬 Agent Started —

Agent: Cultural Fit Analyst

Task: Assess the cultural alignment between the lead's company and our organ following:

 Cultural Values: Analyze the company's publicly stated values and intern sustainability, employee engagement).

 Strategic Alignment: Evaluate how well the company's goals and mission a strategic objectives.

- Qualitative Scoring: Assign a qualitative score (0-10) representing the

- Comments: Provide additional comments or observations that support the c

- Our Company and Product:

Company Name: CrewAI

Product: Multi-Agent Orchestration Platform

- ICP: Enterprise companies looking into Agentic automation.

- Pitch: We are a platform that allows you to orchestrate AI Agents for au

- Lead Data:
 {'name': 'João Moura', 'job\_title': 'Director of Engineering', 'company':
'joao@clearbit.com', 'use\_case': 'Using AI Agent to do better data enrichmen

Agent: Cultural Fit Analyst

Thought: I need to gather information at the cultural alignment with CrewAI.

Using Tool: Search the internet with Ser

Agent: Cultural Fit Analyst

Thought: I need to gather more informat: alignment with CrewAI's organizational (

Using Tool: Search the internet with Ser

"{\"search\_query\": \"Clearbit company o

"{\"search\_query\": \"Clearbit company of

{'searchParameters': {'q': 'Clearbit con
'engine': 'google'}, 'organic': [{'title
'https://wellfound.com/company/clearbit'
businesses . We believe in autonomy, aut
than 1,500 enterprise customers and 300,
1}, {'title': "Defining Clearbit's compa
'snippet': 'Missing: mission statement',
Clearbit's Trust Center", 'link': 'https
values mission statement', 'position': 3
'https://www.comparably.com/companies/cl
intelligence APIs for modern day firms.
'position': 4}, {'title': 'Welcoming Cle
'https://www.hubspot.com/company-news/we
Matt and Harlow, have a bold mission to
In all our ...", 'position': 5}, {'title
'https://canvasbusinessmodel.com/blogs/n
sQILw8DXY9pQVMCA', 'snippet': 'Our core
foundation of everything we do, guiding
Elements of Company Culture to Include i
'https://blog.clearcompany.com/elements-

{'searchParameters': {'q': 'Clearbit con 'google'}, 'organic': [{'title': 'Clearbit'] 'https://wellfound.com/company/clearbit businesses . We believe in autonomy, aut than 1,500 enterprise customers and 300 1}, {'title': "Defining Clearbit's compa 'snippet': "Values provide a constitution Clearbit came up with our company values 'link': 'https://www.glassdoor.com/Overv overview Get tailored insights about wor businesses grow faster and smarter.', 'pwellfound', 'link': 'https://wellfound.cvalues mission', 'position': 4}, {'title 'https://www.comparably.com/companies/c] intelligence APIs for modern day firms. 'position': 5}, {'title': 'Clearbit ente 'https://clearbit.com/blog/clearbit-ente mission to collect rich data about mill: Clearbit's data ...", 'position': 6}, { 'link': 'https://clearbit.com/blog/clear

Agent: Cultural Fit Analyst

Thought: I found valuable information re now retrieve the content from the releva

Using Tool: Read website content

Agent: Cultural Fit Analyst

Thought: Thought: I found relevant links that defines Clearbit's company values 1

Using Tool: Read website content

— Tool Input —

"{\"website\_url\": \"https://clearbit.com/blog/company-values\"}"

— Tool Output —

Defining Clearbit's company values Clearbit customer login Blog > Defining C Clearbit's company values Matt Sornson | August 12, 2019 | 4 minute read In inflection point.

Since our founding in 2014, we'd been running as a small, hyper-efficient, a about everyone in the company would weigh in on new hires, and every new emp the entire leadership team to understand what our values were. This organic as we started to scale.

At thirty-odd employees, Clearbit did already have a real set of values, eve

them. In line with how we were building the company - deliberately and with we all wanted to be a part of - it was time to get official. The challenge: internal operating principles.

We've effectively tripled our team, while maintaining an incredibly high bar all cherish. Choosing and then using our values has been instrumental in tha Surfacing values, from the bottom up

We believe that values should be a reflection of the entire team, not just t set out to formalize Clearbit's, we started by asking the team.

We sent out a survey to every employee, asking them to submit up to three va described our culture. Of equal importance, we asked that they nominate the best exemplified that value.

We were expecting to see a wide array of suggestions and had anticipated tha some serious workshopping to produce a final set. Incredibly, from the over could be grouped into 7 themes.

being customer centric / empathy for customers

learning

excellence / hard work
self-sufficiency

fun

honest communication

team

We took this list and reworked them...

Agent: Cultural Fit Analyst

Final Answer:

Cultural Alignment Assessment Report:

- Cultural Fit Score: 8/10

Cultural Values: Clearbit's core value CrewAI's focus on innovation and employe approach, collaboration, and continuous
 Strategic Alignment: Clearbit's missic CrewAI's offering of orchestrating AI agenterprise clients.

Comments: The cultural overlaps, incluenvironment, signify an excellent foundarelationship.

Agent: Cultural Fit Analyst

Final Answer:

Cultural Fit Score: 8/10

Supporting Analysis:

Cultural Values: Clearbit emphasizes einitiative, and fun. These align well with a strategic Alignment: Clearbit's missic CrewAI's goal of automating enterprise to a culture between the two organizations.

Additional Comments: The focus on teamworthe partnership poses an opportunity for successful.

Task Completed

Name: 75bb632f-655b-48eb-bdcd-f2d91be253

Agent: Cultural Fit Analyst

Tool Args:

Task Completed

Name: 230adf43-8753-4c45-a1b5-2e8b09c34t

Agent: Cultural Fit Analyst

Tool Args:

— 🖮 Agent Started ———

Agent: Lead Scorer and Validator

Task: Aggregate the collected data and perform the following steps: - Score criteria, calculate a final lead score (0-100). Consider factors such as:

- Role Relevance
- Company Size
- Market Presence
- Cultural Fit
- Scoring Criteria Documentation: List the criteria used to determine the sc collected data and the calculated score for consistency and accuracy. Make a Report: Compile a summary report that includes the final validated lead scor validation notes.
- Our Company and Product:
  - Company Name: CrewAI
  - Product: Multi-Agent Orchestration Platform
  - ICP: Enterprise companies looking into Agentic automation.Pitch: We are a platform that allows you to orchestrate AI Agents for au

```
- Lead Data:
    {'name': 'João Moura', 'job_title': 'Director of Engineering', 'company':
'joao@clearbit.com', 'use_case': 'Using AI Agent to do better data enrichmen
```

#### Agent: Lead Scorer and Validator

Thought: I need to gather information at evaluated to arrive at a valid lead score

Using Tool: Search the internet with Ser

Agent: Lead Scorer and Validator

Thought: I need to validate the informat acquisition by HubSpot. This will ensure

Using Tool: Search the internet with Ser

"{\"search query\": \"lead scoring crite

"{\"search\_query\": \"Clearbit HubSpot a

#### Output deleted

{'searchParameters': {'q': 'lead scoring
'engine': 'google'}, 'organic': [{'title 'https://www.mojenta.com/blog/b2b-tech-p Effective Lead Scoring System', 'position Prioritize High-Quality ...', 'link': 'h 'snippet': 'Lead scoring is the process they are to become a customer.', 'positi Practices - Cognism', 'link': 'https://v differs from company to company, there a that most teams ...', 'position': 3}, { 'https://clearbit.com/resources/books/le points for firmographic attributes such tags tell them whether the lead is ..." Scoring - GNW Consulting', 'link': 'https://gnwconsulting.com/resource-cent 'Define your objectives. Clearly identif leads for sales, identifying high-value models and their impact on sales ...', 'snippet': 'In traditional lead scoring, company size, and revenue) and implicit

### Output added

{'searchParameters': {'q': 'Clearbit Huk
'google'}, 'organic': [{'title': 'HubSpool"} 'https://ir.hubspot.com/news-releases/n∈ der-clearbit', 'snippet': 'HubSpot, Inc. announces today that it has successfully "HubSpot's Acquisition of Clearbit: A Or 'https://www.cmswire.com/digital-market: 'snippet': "HubSpot's acquisition of Cl€ capabilities and position itself as a .. Leader, Clearbit - Business Wire', 'link 'https://www.businesswire.com/news/home/ ', 'snippet': 'It has entered into a del help HubSpot customers grow with industr agreement to join forces with HubSpot', 'https://clearbit.com/blog/clearbit-ent€ minute read. I am thrilled to announce t HubSpot.', 'position': 4}, {'title': 'W€ 'https://www.hubspot.com/company-news/we agreement to acquire Clearbit. Clearbit rich and useful data about ...', 'posit: enhance its AI platform', 'link': 'htt.

## Output deleted

# Agent: Lead Scorer and Validator Final Answer: "personal\_info": { "name": "João Moura", "job\_title": "Director of Engineering" "role\_relevance": 8, "professional\_background": "João Mou focusing on data enrichment and automati "company\_info": { "company\_name": "Clearbit", "industry": "Data Intelligence", "company\_size": 120, "revenue": 31.5, "market\_presence": 8 "lead score": { "score": 78, "scoring\_criteria": [ "Role Relevance", "Company Size", "Market Presence",

## Output added

### Agent: Lead Scorer and Validator

# Final Answer:

Thought: I have found valid information the scoring process as it indicates a st compile the final report based on the pr

### Lead Scoring Calculation:

- Role Relevance: 9 (Director of Engine
  automation)
- Company Size: 104 employees (small to
- Market Presence: 7 (Established preser
- Cultural Fit: 8 (Strong alignment with

### Calculating Final Score:

- Role Relevance: 25% of total score
- Company Size: 20% of total score
- Market Presence: 25% of total score
- Cultural Fit: 30% of total score

```
Final Score = (Role Relevance * 0.25) + 0.30) = (9 * 0.25) + (7 * 0.20) + (7 * 0.25) -
```

= 2.25 + 1.4 + 1.75 + 2.4 = 8.8 (Normal:

```
"Cultural Fit"
],
   "validation_notes": "Lead score accu
standing, and CrewAI's target market."
   }
}
```

```
Validation notes indicate high alignment
Final Report:
 "personal_info": {
    "name": "João Moura",
    "job_title": "Director of Engineering
    "role_relevance": 9,
    "professional_background": "João Mou
for leading the development of AI integr
 "company_info": {
    "company_name": "Clearbit",
    "industry": "Business Services, Soft
    "company_size": 104,
    "revenue": 20.0,
    "market_presence": 7
  "lead_score": {
    "score": 88,
    "scoring_criteria": [
      "Role Relevance: 9 (Director of Er
      "Company Size: 104 employees",
      "Market Presence: 7 (clear presence
      "Cultural Fit: 8 (strong alignment
    "validation_notes": "The alignment of
of the lead score."
}
```

Task Completed

Name: db726616-5195-4fe0-993a-d6d252c69a

Agent: Lead Scorer and Validator

Tool Args:

Task Completed

Name: 2e541465-3903-4155-a469-bfd085be59

Agent: Lead Scorer and Validator

Tool Args:

Output deleted

```
Crew Execution Completed
Name: crew
ID: 5c490a11-507b-44ce-8eb0-7744a1911b7a
Tool Args:
Final Output: {
  "personal_info": {
   "name": "João Moura",
    "job_title": "Director of Engineerir
    "role_relevance": 8,
    "professional_background": "João Mou
focusing on data enrichment and automati
  "company_info": {
    "company_name": "Clearbit",
    "industry": "Data Intelligence",
     company_size
    "revenue": 31.5,
    "market_presence": 8
  "lead_score": {
    "score": 78,
    "scoring_criteria": [
      "Role Relevance",
      "Company Size",
      "Market Presence",
      "Cultural Fit"
    "validation_notes": "Lead score accu
standing, and CrewAI's target market."
```

### Output added

```
Crew Execution Completed
Name: crew
ID: 6c95b5da-4b7f-46df-aaf6-22876afc97c
Tool Args:
Final Output: Thought: I have found val:
which enhances the scoring process as i
now proceed to compile the final report
score calculation.
Lead Scoring Calculation:
- Role Relevance: 9 (Director of Engine
automation)

    Company Size: 104 employees (small to

- Market Presence: 7 (Established presen
Cultural Fit: 8 (Strong alignment with
Calculating Final Score:
- Role Relevance: 25% of total score
Company Size: 20% of total score
- Market Presence: 25% of total score
- Cultural Fit: 30% of total score
Final Score = (Role Relevance * 0.25) +
0.30)
= (9 * 0.25) + (7 * 0.20) + (7 * 0.25)
= 2.25 + 1.4 + 1.75 + 2.4 = 8.8 (Normal)
Validation notes indicate high alignment
Final Report:
 "personal_info": {
   "name": "João Moura",
    "job_title": "Director of Engineering
   "role_relevance": 9,
   "professional_background": "João Mou
for leading the development of AI integr
```

```
},
"company_info": {
    "company_name": "Clearbit",
    "industry": "Business Services, Soft
"company_size": 104,
    "revenue": 20.0,
    "market_presence": 7
},
"lead_score": {
    "score": 88,
    "scoring_criteria": [
        "Role Relevance: 9 (Director of Er
        "Company Size: 104 employees",
        "Market Presence: 7 (clear presence)
        "Cultural Fit: 8 (strong alignment)
        ,
        "validation_notes": "The alignment of the lead score."
      }
}
```

#### **Crew Execution Started**

Name: crew

ID: 2f4719f1-a3fb-4622-9d34-1245c62272f2

Tool Args:

#### **Crew Execution Started**

Name: crew

ID: e74d84cc-b4dd-4037-a896-da8f2993ea14

Tool Args:

## Agent: Email Content Writer

Task: Craft a highly personalized email relevant personal or company achievement needs of their company. This is not as and to the point. Don't use any salutati Our Company and Product: — Company Name: Enterprise companies looking into Agenti orchestrate AI Agents for automations to Use the following information: Personal 'role\_relevance': 8, 'professional\_backg technology management, focusing on data 'Clearbit', 'industry': 'Data Intelliger Score: {'score': 78, 'scoring\_criteria': Fit'], 'validation\_notes': "Lead score a Clearbit's standing, and CrewAI's target

## Agent: Email Content Writer

Task: Craft a highly personalized email relevant personal or company achievement needs of their company. This is not as a and to the point. Don't use any salutat: Our Company and Product: — Company Name: Enterprise companies looking into Agent: orchestrate AI Agents for automations to Use the following information: Personal 'role\_relevance': 9, 'professional\_backg Clearbit, responsible for leading the de Company Info: {'company\_name': 'Clearbit Software & IT Services)', 'company\_size 88, 'scoring\_criteria': ['Role Relevance 'Market Presence: 7 (clear presence in talignment with CrewAI's values)"], 'val: CrewAI bolsters the robustness of the le

## Output deleted

Agent: Email Content Writer

Final Answer: João,

As the Director of Engineering at Cleark perfectly with what CrewAI offers. Our Nautomation across various projects, enha

With Clearbit's strong market presence a scale operations using orchestrated AI A support your automation goals and drive

## Output added

Agent: Email Content Writer

Final Answer:

João, I noticed your impressive work as shaping the product roadmap. CrewAI's Mu initiatives, enabling seamless automatic and focus on innovative solutions post—a operational efficiency and drive AI adva Clearbit.

Task Completed

Name: 3dbf2447-7fa3-4df1-8aaa-81f244862e

Agent: Email Content Writer

Tool Args:

Task Completed

Name: 405e9102-df33-40d5-88e0-239fa1b602

Agent: Email Content Writer

Tool Args:

— 论 Agent Started ————

Agent: Engagement Optimization Specialist

Task: Review the personalized email draft and optimize it with strong CTAs a they reached out and filled a lead form. Keep it short and to the point. Don remarks, nor too complex sentences. Ensure the email encourages the lead to another desired action immediately.

Our Company and Product: - Company Name: CrewAI - Product: Multi-Agent Orche Enterprise companies looking into Agentic automation. - Pitch: We are a plat orchestrate AI Agents for automations to any vertical.

Output deleted

Agent: Engagement Optimization Specialis

Final Answer:

Maximize efficiency and drive results wi solution can transform your automation p

Ready to elevate your automation strated your needs. Click here [insert scheduling text]

Want to see our platform in action? Resp the next 24 hours.

Don't miss out on the opportunity to str

Output added

Agent: Engagement Optimization Specialis

Final Answer:

Unlock the potential of your enterprise orchestrating AI Agents that drive autor never before.

Ready to elevate your operations? Click Don't miss out on transforming your auto and we'll get back to you right away! Er

Task Completed

Name: bec7bb31-59b8-4731-9168-1f03a76686 Agent: Engagement Optimization Specialis

Tool Args:

Task Completed

Name: 2d3611ad-97a5-4c7f-b028-2cae5d8157 Agent: Engagement Optimization Specialis

Tool Args:

**Crew Execution Completed** 

Name: crew

ID: 2f4719f1-a3fb-4622-9d34-1245c62272f2

Tool Args:

Final Output: Maximize efficiency and dr Discover how our solution can transform

Ready to elevate your automation strated your needs. Click here [insert scheduling text]

**Crew Execution Completed** 

Name: crew

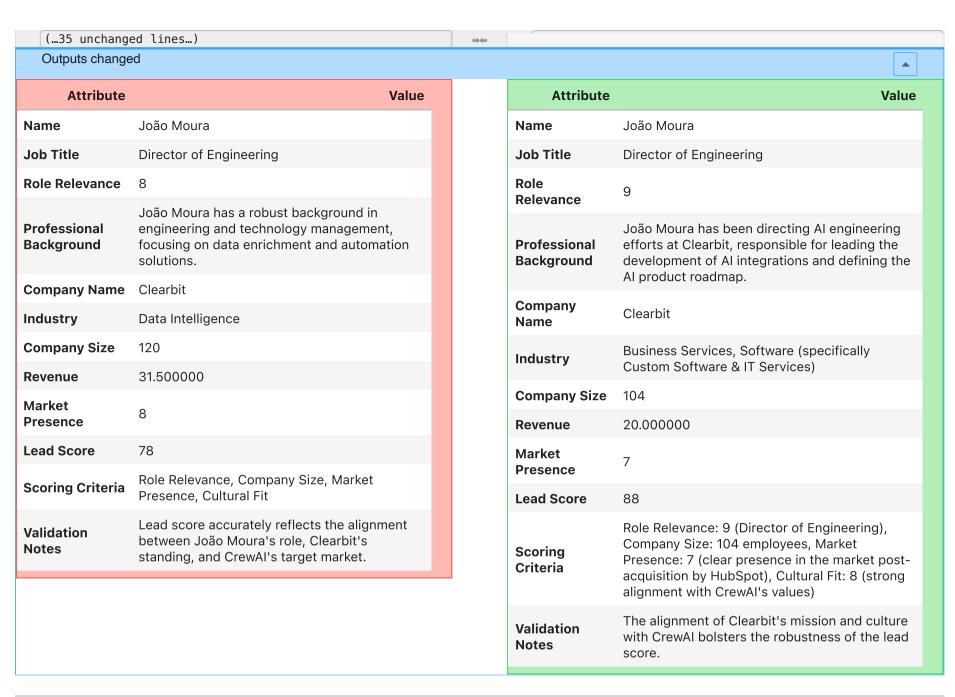
ID: e74d84cc-b4dd-4037-a896-da8f2993ea14

Tool Args:

Final Output: Unlock the potential of your Imagine orchestrating AI Agents that draprocesses like never before.

Ready to elevate your operations? Click Don't miss out on transforming your auto

and we'll get back to you right away! Er Want to see our platform in action? Resp the next 24 hours. Don't miss out on the opportunity to str Flow Execution Completed Flow Execution Completed Name: SalesPipeline Name: SalesPipeline ID: b11d02c2-e14b-4db0-aa77-a6cfee9bc66c ID: 493fbfef-291d-4bcf-940d-daa097380891 Tool Args: Tool Aras: Flow execution time: 47.55 seconds Flow execution time: 42.07 seconds 2 unchanged cell(s) hidden In [23]: Cell ID: 5cd2ad40-12a3-401f-ad32-6bd54a099734 In [12]: Cell ID: 5cd2ad40-12a3-401f-ad32-6bd54a099734 1 import pandas as pd 2 1 # Convert UsageMetrics instance to a DataFrame 3 # Convert UsageMetrics instance to a DataFrame 2 df\_usage\_metrics = pd.DataFrame( 4 df\_usage\_metrics = pd.DataFrame( (...9 unchanged lines...) (...9 unchanged lines...) Outputs changed Total costs: \$0.0025 total\_tokens prompt\_tokens cached\_prompt\_tokens comp total\_tokens prompt\_tokens cached\_prompt\_tokens comp 0 16461 14726 4352 0 16495 5120 14959 In [19]: In [24]: Cell ID: fae27085-f186-40d2-84d8-3aad6ee8a322 Cell ID: fae27085-f186-40d2-84d8-3aad6ee8a322 1 import pandas as pd 1 import asyncio 2 3 4 if asyncio.iscoroutine(emails): 5 emails = await emails # A 6 7 8 if not emails or not hasattr(emails[0], "token\_usage 9 raise ValueError( "No results available in 'emails' or missing 10 3 # Convert UsageMetrics instance to a DataFrame 11 (...8 unchanged lines...) 12 13 # Convert UsageMetrics instance to a DataFrame (...8 unchanged lines...) Outputs changed Total costs: \$0.0002 total\_tokens prompt\_tokens cached\_prompt\_tokens comp total\_tokens prompt\_tokens cached\_prompt\_tokens comp 0 849 1088 1121 900 1 unchanged cell(s) hidden Cell ID: d10efceb-e3fd-4324-9337-879be159f093 Cell ID: d10efceb-e3fd-4324-9337-879be159f093 In [27]: In [20]: 1 scores = flow.state["score\_crews\_results"] In [28]: In [21]: Cell ID: 7860c745-0c7e-4edd-bf8b-75beb14f64bd Cell ID: 7860c745-0c7e-4edd-bf8b-75beb14f64bd 1 **import** pandas **as** pd 2 from IPython.display import display, HTML 3 1 lead\_scoring\_result = scores[0].pydantic 4 lead\_scoring\_result = scores[0].pydantic 2



#### 1 unchanged cell(s) hidden

```
In [29]:
                                                             In [22]:
                                                                             Cell ID: 8c221ae1-6310-472b-aaeb-c046a5d1a08c
               Cell ID: 8c221ae1-6310-472b-aaeb-c046a5d1a08c
1 import textwrap
2
                                                                 1 result_text = emails[0].raw
3 result_text = emails[0].raw
                                                                 2 wrapped_text = textwrap.fill(result_text, width=80)
4 wrapped_text = textwrap.fill(result_text, width=80)
                                                                 3 print(wrapped_text)
5 print(wrapped_text)
   Outputs changed
                                                                                                                   Output deleted
                                                                Output added
Maximize efficiency and drive results with CrewAI's Mul
                                                                 Unlock the potential of your enterprise with CrewAI's N
                                                                 Platform. Imagine orchestrating AI Agents that drive au
Platform. Discover how our solution can transform your
across any vertical. Ready to elevate your automation
                                                                 business verticals, streamlining processes like never b
meeting today to explore tailored solutions that meet y
                                                                 your operations? Click here to schedule a quick chat wi
[insert scheduling link] to choose a time that works fo
                                                                 Meeting]. Don't miss out on transforming your automatio
platform in action? Respond with "Demo" and we'll arran
                                                                 immediate insights, reply to this email, and we'll get
                                                                 Embrace the future of efficiency with CrewAI today!
walkthrough within the next 24 hours. Don't miss out
streamline operations and boost productivity. Take the
```

# 1 unchanged cell(s) hidden

```
In [30]:
                Cell ID: a39a9216-103f-4a55-81ed-95a0ad41c73c
                                                              In [26]:
                                                                              Cell ID: a39a9216-103f-4a55-81ed-95a0ad41c73c
 1 from crewai import Flow
 2 from crewai.flow.flow import listen, start, and_, or_, router
 4
 5 class SalesPipeline(Flow):
 7
       @start()
 8
       def fetch_leads(self):
            # Pull our leads from the database
 9
10
            # This is a mock, in a real—world scenario, this is where you would
11
            # fetch leads from a database
12
            leads = [
13
                    "lead_data": {
14
15
                        "name": "João Moura",
                        "job_title": "Director of Engineering",
16
                        "company": "Clearbit",
17
                        "email": "joao@clearbit.com",
18
                        "use_case": "Using AI Agent to do better data enrichment.",
19
20
                    },
                },
21
```

```
22
23
           return leads
24
25
       @listen(fetch_leads)
       def score_leads(self, leads):
26
27
           scores = lead_scoring_crew.kickoff_for_each(leads)
28
           self.state["score_crews_results"] = scores
29
           return scores
30
31
       @listen(score_leads)
32
       def store_leads_score(self, scores):
           # Here we would store the scores in the database
33
34
           return scores
35
36
       @listen(score_leads)
37
       def filter_leads(self, scores):
38
           return [score for score in scores if score["lead_score"].score > 70]
39
       @listen(and_(filter_leads, store_leads_score))
40
       def log_leads(self, leads):
41
42
           print(f"Leads: {leads}")
43
44
       @router(
45
           filter_leads,
           # paths=["high", "medium", "low"]
46
47
       def count_leads(self, scores):
48
           if len(scores) > 10:
49
50
               return "high"
           elif len(scores) > 5:
51
52
               return "medium"
53
           else:
               return "low"
54
55
       @listen("high")
56
57
       def store_in_salesforce(self, leads):
58
           return leads
59
       @listen("medium")
60
61
       def send_to_sales_team(self, leads):
           return leads
62
63
64
       @listen("low")
65
       def write_email(self, leads):
           scored_leads = [lead.to_dict() for lead in leads]
66
67
           emails = email_writing_crew.kickoff_for_each(scored_leads)
68
           return emails
69
70
       @listen(write_email)
71
       def send_email(self, emails):
72
           # Here we would send the emails to the leads
                                                  1 unchanged cell(s) hidden
In [32]:
               Cell ID: eecf2beb-818a-4db5-8338-280beac670b9
                                                             In [27]:
                                                                             Cell ID: eecf2beb-818a-4db5-8338-280beac670b9
1 flow = SalesPipeline()
                                                                 1 flow = SalesPipeline()
                                                                 2 # Save the flow plot as HTML
2 # Save the flow plot as HTML
3 flow.plot(filename="crewai_flow_complex.html")
                                                                 3 flow.plot(filename="crewai_flow_complex")
4
                                                                 4
5 save_flow_plot_screenshot(
                                                                 5 save_flow_plot_screenshot(
       html_file="crewai_flow_complex.html", screenshot
                                                                 6
                                                                       html_file="crewai_flow_complex.html", screenshot
6
                                                                 7)
7)
   Outputs changed
                                                                                                                   Starting Flow Execution
      Starting Flow Execution
      Name: SalesPipeline
                                                                       Name: SalesPipeline
      ID: 8ff5a35c-7418-4b18-a375-6fadae2b57c@
                                                                       ID: 0edc3b08-d1bc-412f-aacf-3f2651fa4d75
                                                                       Tool Aras:
      Tool Args:
```

Plot saved as crewai\_flow\_complex.html.html

Plot saved as crewai\_flow\_complex.html

