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1. import os
2. import json
3. import groq
5. client = groq.Groq(api\_key="gsk\_98s6uNw0OizrVCjLOVZXWGdyb3FYQyZ5tLAqYEro5nBlqBLDFJvn")
7. conversation = [
8. {"role": "system", "content": "You are a helpful AI assisstant who always responds in Swahili"}
9. ]
11. def calculator(operation: str, x: int, y: int):
12. if operation.lower() == "add":
13. return x + y
14. elif operation.lower() == "multiply":
15. return x \* y
16. elif operation.lower() == "subtract":
17. return x - y
18. elif operation.lower() == "divide":
19. return x / y
20. else:
21. return "operation not supported"
23. def read\_file(filename: str):
24. try:
25. full\_path = os.path.join("./", filename)
26. with open(full\_path, 'r') as file:
27. return file.read()
28. except Exception as e:
29. return f"Failed to read from file: {str(e)}"
31. tools = [
32. {
33. "type": "function",
34. "function": {
35. "name": "calculator",
36. "description": "Calculate the values of two numbers",
37. "parameters": {
38. "type": "object",
39. "properties": {
40. "operation": {
41. "type": "string",
42. "description": "The type of operation to perform. Supported operations are add, multiply, divide and subtract"
43. },
44. "x": {
45. "type": "integer",
46. "description": "The value of the first number"
47. },
48. "y": {
49. "type": "integer",
50. "description": "The value of the second number"
51. }
52. },
53. "required": ["operation", "x", "y"]
54. }
55. }
56. }
57. ]
59. message = input("Your message: ")
61. conversation.append({"role": "user", "content": message})
63. first\_ai\_response = client.chat.completions.create(messages=conversation, model="llama-3.3-70b-versatile", tools=tools, tool\_choice="auto")
65. should\_we\_use\_tools = first\_ai\_response.choices[0].message.tool\_calls
67. if should\_we\_use\_tools:
68. available\_functions = {
69. "calculator": calculator,
70. }
71. conversation.append(first\_ai\_response.choices[0].message)
72. for tool\_call in should\_we\_use\_tools:
73. function\_name = tool\_call.function.name
74. function\_to\_call = available\_functions[function\_name]
75. function\_args = json.loads(tool\_call.function.arguments)
76. function\_response = function\_to\_call(\*\*function\_args)
77. conversation.append(
78. {
79. "tool\_call\_id": tool\_call.id,
80. "role": "tool",
81. "name": function\_name,
82. "content": str(function\_response),
83. }
84. )
85. second\_response = client.chat.completions.create(
86. model="llama-3.3-70b-versatile",
87. messages=conversation
88. )
89. print(second\_response.choices[0].message.content)
91. else:
92. print(first\_ai\_response.choices[0].message.content)

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