from swarms import BaseSwarm, Agent, Anthropic

```
class MarketingSwarm(BaseSwarm):
  .....
  A class representing a marketing swarm.
  Attributes:
     name (str): The name of the marketing swarm.
     market_trend_analyzer (Agent): An agent for analyzing market trends.
     content_idea_generator (Agent): An agent for generating content ideas.
     campaign_optimizer (Agent): An agent for optimizing marketing campaigns.
  Methods:
     run(task: str, *args, **kwargs) -> Any: Runs the marketing swarm for the given task.
  11 11 11
  def __init__(
     self, name="kyegomez/marketingswarm", *args, **kwargs
  ):
     super().__init__(*args, **kwargs)
     self.name = name
     # Agent for market trend analyzer
     self.market_trend_analyzer = Agent(
```

```
agent_name="Market Trend Analyzer",
  system_prompt="Analyze market trends to identify opportunities for marketing campaigns.",
  IIm=Anthropic(),
  meax_loops=1,
  autosave=True,
  dashboard=False,
  streaming_on=True,
  verbose=True,
  stopping_token="<DONE>",
)
# Agent for content idea generator
self.content_idea_generator = Agent(
  agent_name="Content Idea Generator",
  system_prompt="Generate content ideas based on market trends.",
  IIm=Anthropic(),
  max_loops=1,
  autosave=True,
  dashboard=False,
  streaming_on=True,
  verbose=True,
  stopping_token="<DONE>",
)
# Agent for campaign optimizer
self.campaign_optimizer = Agent(
```

```
agent_name="Campaign Optimizer",
            system_prompt="Optimize marketing campaigns based on content ideas and market
trends.",
       IIm=Anthropic(),
       max_loops=1,
       autosave=True,
       dashboard=False,
       streaming_on=True,
       verbose=True,
       stopping_token="<DONE>",
     )
  def run(self, task: str, *args, **kwargs):
     11 11 11
     Runs the marketing swarm for the given task.
     Args:
       task (str): The task to be performed by the marketing swarm.
       *args: Additional positional arguments.
       **kwargs: Additional keyword arguments.
     Returns:
       Any: The result of running the marketing swarm.
     ....
     # Analyze market trends
```

```
analyzed_trends = self.market_trend_analyzer.run(
    task, *args, **kwargs
)

# Generate content ideas based on market trends
content_ideas = self.content_idea_generator.run(
    task, analyzed_trends, *args, **kwargs
)

# Optimize marketing campaigns based on content ideas and market trends
optimized_campaigns = self.campaign_optimizer.run(
    task, content_ideas, analyzed_trends, *args, **kwargs
)

return optimized_campaigns
```