```
from pydantic import BaseModel, Field
from swarm_models import OpenAlChat
from swarms import Agent
import os
# Initialize the schema for the person's information
class Schema(BaseModel):
  name: str = Field(..., title="Name of the person")
  agent: int = Field(..., title="Age of the person")
  is_student: bool = Field(
    ..., title="Whether the person is a student"
  )
  courses: list[str] = Field(
     ..., title="List of courses the person is taking"
  )
# Convert the schema to a JSON string
tool_schema = Schema(
  name="Tool Name",
  agent=1,
  is_student=True,
  courses=["Course1", "Course2"],
```

)

```
# Define the task to generate a person's information
task = (
  "Generate a person's information based on the following schema:"
)
# Initialize the agent
agent = Agent(
  agent_name="Person Information Generator",
  system_prompt=(
     "Generate a person's information based on the following schema:"
  ),
  # Set the tool schema to the JSON string -- this is the key difference
  # tool_schema=tool_schema,
  Ilm=OpenAlChat(
    openai_api_key=os.getenv("OPENAI_API_KEY"),
  ),
  max_loops=3,
  autosave=True,
  dashboard=False,
  streaming_on=True,
  verbose=True,
  interactive=True,
  # Set the output type to the tool schema which is a BaseModel
  # output_type=tool_schema, # or dict, or str
  metadata_output_type="json",
  # List of schemas that the agent can handle
```

```
list_base_models=[tool_schema],
function_calling_format_type="OpenAl",
function_calling_type="json", # or soon yaml
)

# Run the agent to generate the person's information
generated_data = agent.run(task)

# Print the generated data
print(f"Generated data: {generated_data}")
```