

In [ ]:

In [14]: *# To search documents*

```

#Import Elasticsearch and helpers from elasticsearch

from elasticsearch import Elasticsearch, helpers
import json

es = Elasticsearch(['http://localhost:9200'])
es.ping() #connection testing
res = es.search(index="pdgithub_issues", body={"query": {"match_all": {}}})

# Extract the total hit count
print("Got %d Hits:" % res['hits']['total']['value'])

# Extract hits from the response
hits = res.get('hits', {})

# Pretty print the hits
print(json.dumps(hits, indent=2))

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Got 3879 Hits:

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{
  "total": {
    "value": 3879,
    "relation": "eq"
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  "max_score": 1.0,
  "hits": [
    {
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        "_type": "issue",
        "_repo": "langchain",
        "_issueNumber": "28276",
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documentation BUT I am getting NotImplementedError",
        "_createdAt": "2024-11-22T01:13:50Z",
        "_closedAt": "2024-12-31T00:36:30Z",
        "_state": "open",
        "_body": "### Checked other resources\n\n [X] I added a very descri
ptive title to this issue.\n- [X] I searched the LangChain documentation wit
h the integrated search.\n- [X] I used the GitHub search to find a similar q
uestion and didn't find it.\n- [X] I am sure that this is a bug in LangChain
rather than my code.\n- [X] The bug is not resolved by updating to the lates

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t stable version of LangChain (or the specific integration package).\n\n###
Example Code\n\n```\r\n#-----\r\n# HuggingFace embedding (no iss
ue)\r\nfrom langchain_huggingface import HuggingFaceEmbeddings\r\nembeddings
= HuggingFaceEmbeddings(model=\"sentence-transformers/all-mpnet-base-v2\")\r
\n\r\n\r\n#-----\r\n# create langchain-chroma persistent client w
ith collection name 'example_collection'; (no issue)\r\nfrom langchain_chrom
a import Chroma\r\n\r\nvector_store = Chroma(\r\n    collection_name=\"examp
le_collection\",    # collection is \"table\" in vectore store\r\n    embedd
ing_function=hf,    # hf is huggingface embeddings derived from the previou
s step\r\n    persist_directory=\"./vectorstore/chroma_langchain_db\",    # W
here to save data locally, remove if not necessary\r\n)\r\n\r\n\r\n#-----
-----\r\n# add at least one document into vector collection (no issue)\r
\nfrom uuid import uuid4\r\nfrom langchain_core.documents import Document\r\
\n\r\n\r\ndocument_1 = Document(\r\n    page_content=\"I had chocolate chip panca
kes and scrambled eggs for breakfast this morning.\",\r\n    metadata={\"sou
rce\": \"tweet\"},\r\n    id=1,\r\n)\r\n\r\n\r\ndocuments = [\r\n    document_1,
\r\n]\r\n\r\n\r\nuuids = [str(uuid4()) for _ in range(len(documents))]\r\n\r\nvector
_store.add_documents(documents=documents, ids=uuids)\r\n\r\n\r\n\r\n#-----
----- ERROR ENCOUNTERED when running get_by_ids \r\n# attempt to run ge
t_by_ids yields NotImplementedError\r\n\r\nvector_store.get_by_ids(['6314982d-45
5f-47cc-bf97-6e5324f6af62'])\r\n\r\n\r\n```\n\n### Error Message and Stack Trace
(if applicable)\n\n{\r\n\t\"name\": \"NotImplementedError\", \r\n\t\"message
\": \"Chroma does not yet support get_by_ids.\", \r\n\t\"stack\": \"-----
-----\r\n\r\nNotImp
lementedError                                Traceback (most recent call last)\r\nCel
l In[87], line 3\r\n      1 # testing get the first two document ids\r\n      2 # ids = ['db1e5f74-f18d-4765-a193-d30eaed7552f', '12861b34-df54-4e40-8e1e-
ae9ea901d378']\r\n----> 3 vector_store.get_by_ids(['6314982d-455f-47cc-bf97-
6e5324f6af62'])\r\n      5 # get_by_ids() functionality is not avaiable unti
l v0.2.11\r\n\r\n\r\nFile ~/Documents/0_-_Python_Projects/05_Gen_AI/venv_3_11/li
b/python3.11/site-packages/langchain_core/vectorstores/base.py:164, in Vecto
rStore.get_by_ids(self, ids)\r\n      140 \\\\\"\\\\"\\\\"Get documents by their I
Ds.\r\n      141 \r\n      142 The returned documents are expected to have the I
D field set to the ID of the\r\n      (...) \r\n      161 .. versionadded:: 0.2.11
\r\n      162 \\\\\"\\\\"\\\\" \r\n      163 msg = f\\\\"{self.__class__.__name__} doe
s not yet support get_by_ids.\\\\" \r\n--> 164 raise NotImplementedError(msg)\r
\n\r\n\r\nNotImplementedError: Chroma does not yet support get_by_ids.\r\n\r\n}\n
\n### Description\n\nI am just trying to run the vector_store method `get_by
_ids` - it is listed as one of the available methods in [here](https://pyth
on.langchain.com/api_reference/chroma/vectorstores/langchain_chroma.vectorst
ores.Chroma.html)\r\n\r\n\r\n### System Info\n\n$ python -m langchain_core.sys_i
nfo\r\n\r\n\r\nSystem Information\r\n-----\r\n> OS: Darwin\r\n> OS
Version: Darwin Kernel Version 23.6.0: Mon Jul 29 21:13:00 PDT 2024; root:x
nu-10063.141.2~1/RELEASE_X86_64\r\n> Python Version: 3.11.10 (main, Nov 19
2024, 15:24:32) [Clang 12.0.0 (clang-1200.0.32.29)]\r\n\r\n\r\nPackage Informati
on\r\n-----\r\n> langchain_core: 0.3.19\r\n> langchain: 0.3.7\r
\n> langchain_community: 0.3.4\r\n> langsmith: 0.1.143\r\n> langchain_chrom
a: 0.1.4\r\n> langchain_experimental: 0.3.3\r\n> langchain_groq: 0.2.1\r\n>
langchain_huggingface: 0.1.2\r\n> langchain_text_splitters: 0.3.2\r\n\r\n\r\nOpt
ional packages not installed\r\n-----\r\n> langgra

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ph\r\n> langserve\r\n\r\nOther Dependencies\r\n-----\r\n> aioht
tp: 3.11.6\r\n> async-timeout: Installed. No version info available.\r\n> ch
romadb: 0.5.20\r\n> dataclasses-json: 0.6.7\r\n> fastapi: 0.115.5\r\n> groq:
0.12.0\r\n> httpx: 0.27.2\r\n> httpx-sse: 0.4.0\r\n> huggingface-hub: 0.26.2
\r\n> jsonpatch: 1.33\r\n> numpy: 1.26.4\r\n> orjson: 3.10.11\r\n> packagin
g: 24.2\r\n> pydantic: 2.9.2\r\n> pydantic-settings: 2.6.1\r\n> PyYAML: 6.0.
2\r\n> requests: 2.32.3\r\n> requests-toolbelt: 1.0.0\r\n> sentence-transfor
mers: 3.3.1\r\n> SQLAlchemy: 2.0.36\r\n> tenacity: 9.0.0\r\n> tokenizers: 0.
20.3\r\n> transformers: 4.46.3\r\n> typing-extensions: 4.12.2",

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```

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ptive title to this issue.\n- [X] I searched the LangChain documentati
on with the integrated search.\n- [X] I used the GitHub search to find a similar q
uestion and didn't find it.\n- [X] I am sure that this is a bug in LangChain
rather than my code.\n- [X] The bug is not resolved by updating to the latest
stable version of LangChain (or the specific integration package).\n\n###
Example Code\n\n\npython\n\n# Ensure your VertexAI credentials are
configured\n\nfrom langchain_google_vertexai import ChatVertexAI\n\nmodel = ChatVertexAI(model='gemini-1.5-flash')\n\nmodel.invoke('Hello, world!')\n\n\n\n\n### Error Message and Stack Trace (if applicable)
\n\npython\n\n-----\n\n\nNameError                                Traceback (most
recent call last)\n\nFile /opt/conda/lib/python3.10/site-packages/pydantic/
internal/_generate_schema.py:815, in GenerateSchema._resolve_forward_ref(
self, obj)\n\n    814 try:\n\n--> 815         obj = _typing_extra.eval_type_back
port(obj, *self._types_namespace)\n\n    816 except NameError as e:\n\n\nFile /opt/conda/lib/python3.10/site-packages/pydantic/internal/_typing_extr

```

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a.py:534, in eval_type_backport(value, globalns, localns, type_params)\r\n
533 try:\r\n--> 534     return _eval_type_backport(value, globalns, localns,
type_params)\r\n    535 except TypeError as e:\r\n\r\nFile /opt/conda/lib/py
thon3.10/site-packages/pydantic/_internal/_typing_extra.py:558, in _eval_typ
e_backport(value, globalns, localns, type_params)\r\n    557 try:\r\n--> 558
return _eval_type(value, globalns, localns, type_params)\r\n    559 except T
ypeError as e:\r\n\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/
_internal/_typing_extra.py:592, in _eval_type(value, globalns, localns, type
_params)\r\n    591 else:\r\n--> 592     return typing._eval_type( # type:
ignore\r\n    593         value, globalns, localns\r\n    594     )\r\n\r\nFile
/opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, globalns, loca
lns, recursive_guard)\r\n    326 if isinstance(t, ForwardRef):\r\n--> 327
return t._evaluate(globalns, localns, recursive_guard)\r\n    328 if isinsta
nce(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/con
da/lib/python3.10/typing.py:699, in ForwardRef._evaluate(self, globalns, loc
als, recursive_guard)\r\n    693 type_ = _type_check(\r\n    694     eval(s
elf.__forward_code__, globalns, localns),\r\n    695     \r\n    696     is_argument=self.__forward_is_ar
gument__,\r\n    697     allow_special_forms=self.__forward_is_class__,\r\n
698 )\r\n--> 699 self.__forward_value__ = _eval_type(\r\n    700     type_,
globalns, localns, recursive_guard | {self.__forward_arg__}\r\n    701 )\r\n
702 self.__forward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/
typing.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n    3
28 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n-->
329     ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) fo
r a in t.__args__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /op
t/conda/lib/python3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinsta
nce(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_ar
gs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__ar
gs__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/py
thon3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)
\r\n    326 if isinstance(t, ForwardRef):\r\n--> 327     return t._evaluate(
globalns, localns, recursive_guard)\r\n    328 if isinstance(t, (_GenericAli
as, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/conda/lib/python3.10/t
yping.py:699, in ForwardRef._evaluate(self, globalns, localns, recursive_gua
rd)\r\n    693 type_ = _type_check(\r\n    694     eval(self.__forward_code_
_, globalns, localns),\r\n    695     \r\n    696     is_argument=self.__forward_is_argument__,\r\n    69
7     allow_special_forms=self.__forward_is_class__,\r\n    698 )\r\n--> 699
self.__forward_value__ = _eval_type(\r\n    700     type_, globalns, localn
s, recursive_guard | {self.__forward_arg__}\r\n    701 )\r\n    702 self.__f
orward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:32
9, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 if isinst
ance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_a
rgs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__a
rgs__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/p
ython3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinstance(t, (_Gene
ricAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_args = tuple(_e
val_type(a, globalns, localns, recursive_guard) for a in t.__args__)\r\n
330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typi

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    ]
    }
}
]
}

```

In [ ]:

```

In [15]: # Define model and embedding function
from openai import OpenAI
EMBEDDING_MODEL = "text-embedding-ada-002"
client = OpenAI(api_key="sk-proj-b_EAft00QZDKM8-lKhXuEhXlc5GLUSIYw7T7kZ9WD36")
def get_embedding(text, model="text-embedding-ada-002"):
    text = text.replace("\n", " ")
    return client.embeddings.create(input = [text], model=model).data[0].embedding

```

```

In [16]: # Pretty print function for GitHub Issues

def pretty_response_Issue(response):
    for hit in response['hits']['hits']:
        type = hit['_source']['_type']
        repo = hit['_source']['_repo']
        issueNumber = hit['_source']['_issueNumber']
        title = hit['_source']['_title']
        createdAt = hit['_source']['_createdAt']
        closedAt = hit['_source']['_closedAt']
        state = hit['_source']['_state']
        body = hit['_source']['_body']

        pretty_output = (
            f"\nType: {type}\nRepo:{repo}\nIssue Number: {issueNumber}\nTitle: {title}\n"
            f"State: {state}\nBody: {body}\n"
        )

```

```
)
print(pretty_output)
```

In [17]: `hits['hits'][5]['_source']` # Choose an Issue from Issues in repository

```
Out[17]: {'_type': 'issue',
  '_repo': 'langchain',
  '_issueNumber': '28271',
  '_title': "PydanticUndefinedAnnotation: name 'SafetySetting' is not define
d using ChatVertexAI",
  '_createdAt': '2024-11-21T22:43:53Z',
  '_closedAt': '2024-12-31T00:36:30Z',
  '_state': 'open',
  '_body': '### Checked other resources\n\n- [X] I added a very descriptive
title to this issue.\n- [X] I searched the LangChain documentation with the
integrated search.\n- [X] I used the GitHub search to find a similar questi
on and didn\'t find it.\n- [X] I am sure that this is a bug in LangChain ra
ther than my code.\n- [X] The bug is not resolved by updating to the latest
stable version of LangChain (or the specific integration package).\n\n### E
xample Code\n\n\r\n`python\r\n\r\n# Ensure your VertexAI credentials are
configured\r\n\r\nfrom langchain_google_vertexai import ChatVertexAI\r\n\r\n
nmodel = ChatVertexAI(model="gemini-1.5-flash")\r\n\r\nmodel.invoke("Hello,
world!")\r\n\r\n`'\n\n### Error Message and Stack Trace (if applicable)\n\n
n`python\r\n-----
-----\r\nNameError                                Traceback (most
recent call last)\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/
_internal/_generate_schema.py:815, in GenerateSchema._resolve_forward_ref(s
elf, obj)\r\n    814 try:\r\n--> 815         obj = _typing_extra.eval_type_back
port(obj, *self._types_namespace)\r\n    816 except NameError as e:\r\n\r\n
File /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_ext
ra.py:534, in eval_type_backport(value, globalns, localns, type_params)\r\n
533 try:\r\n--> 534         return _eval_type_backport(value, globalns, localn
s, type_params)\r\n    535 except TypeError as e:\r\n\r\nFile /opt/conda/li
b/python3.10/site-packages/pydantic/_internal/_typing_extra.py:558, in _eva
l_type_backport(value, globalns, localns, type_params)\r\n    557 try:\r\n-
-> 558         return _eval_type(value, globalns, localns, type_params)\r\n
559 except TypeError as e:\r\n\r\nFile /opt/conda/lib/python3.10/site-packa
ges/pydantic/_internal/_typing_extra.py:592, in _eval_type(value, globalns,
localns, type_params)\r\n    591 else:\r\n--> 592         return typing._eval_t
ype( # type: ignore\r\n    593             value, globalns, localns\r\n    594
)\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, glo
balns, localns, recursive_guard)\r\n    326 if isinstance(t, ForwardRef):\r\n
--> 327         return t._evaluate(globalns, localns, recursive_guard)\r\n
328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n\r\n
File /opt/conda/lib/python3.10/typing.py:699, in ForwardRef._evaluate(sel
f, globalns, localns, recursive_guard)\r\n    693 type_ = _type_check(\r\n
694     eval(self.__forward_code__, globalns, localns),\r\n    695     "For
ward references must evaluate to types.",\r\n    696     is_argument=self._
__forward_is_argument__,\r\n    697     allow_special_forms=self.__forward_i
s_class__,\r\n    698 )\r\n--> 699 self.__forward_value__ = _eval_type(\r\n
```

```

700     type_, globalns, localns, recursive_guard | {self.__forward_arg__}\
r\n    701 )\r\n    702 self.__forward_evaluated__ = True\r\n\r\nFile /opt/
conda/lib/python3.10/typing.py:329, in _eval_type(t, globalns, localns, rec
ursive_guard)\r\n    328 if isinstance(t, (_GenericAlias, GenericAlias, typ
es.UnionType)):\r\n--> 329     ev_args = tuple(_eval_type(a, globalns, loca
lns, recursive_guard) for a in t.__args__)\r\n    330     if ev_args == t._
__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:329, in <genexpr>
(.0)\r\n    328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionT
ype)):\r\n--> 329     ev_args = tuple(_eval_type(a, globalns, localns, recu
rsive_guard) for a in t.__args__)\r\n    330     if ev_args == t.__args__:\r
\r\nFile /opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, globa
lns, localns, recursive_guard)\r\n    326 if isinstance(t, ForwardRef):\r\n
--> 327     return t._evaluate(globalns, localns, recursive_guard)\r\n    3
28 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n\r\n
File /opt/conda/lib/python3.10/typing.py:699, in ForwardRef._evaluate(sel
f, globalns, localns, recursive_guard)\r\n    693 type_ = _type_check(\r\n
694     eval(self.__forward_code__, globalns, localns),\r\n    695     "For
ward references must evaluate to types.",\r\n    696     is_argument=self._
__forward_is_argument__,\r\n    697     allow_special_forms=self.__forward_i
s_class__,\r\n    698 )\r\n--> 699 self.__forward_value__ = _eval_type(\r\n
700     type_, globalns, localns, recursive_guard | {self.__forward_arg__}\
r\n    701 )\r\n    702 self.__forward_evaluated__ = True\r\n\r\nFile /opt/
conda/lib/python3.10/typing.py:329, in _eval_type(t, globalns, localns, rec
ursive_guard)\r\n    328 if isinstance(t, (_GenericAlias, GenericAlias, typ
es.UnionType)):\r\n--> 329     ev_args = tuple(_eval_type(a, globalns, loca
lns, recursive_guard) for a in t.__args__)\r\n    330     if ev_args == t._
__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:329, in <genexpr>
(.0)\r\n    328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionT
ype)):\r\n--> 329     ev_args = tuple(_eval_type(a, globalns, localns, recu
rsive_guard) for a in t.__args__)\r\n    330     if ev_args == t.__args__:\r
\r\nFile /opt/conda/lib/python3.10/typing.py:329, in _eval_type(t, globa
lns, localns, recursive_guard)\r\n    328 if isinstance(t, (_GenericAlias,
Generi',
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0.012623157352209091,  
-0.027082152664661407,  
0.017504490911960602,  
-0.025587866082787514,  
-0.0018571838736534119,  
0.01549787912517786,  
0.0002299243351444602,  
-0.02493322640657425,  
0.02093423344194889,  
-0.015526341274380684,  
-0.04838639870285988,  
-0.01108617801219225,  
0.004486415535211563,  
0.010637892410159111,  
0.02991417981684208,  
-0.022015811875462532,  
0.006187054794281721,  
-0.023382015526294708,  
-0.01854337565600872,  
0.015440953895449638,  
0.004048802889883518,  
-0.009463810361921787,  
0.007948177866637707,  
0.0015174116706475616,  
-0.02177388034760952,  
-0.019610723480582237,  
0.20743533968925476,  
0.010794436559081078,  
-0.004682095721364021,  
0.01366204209625721,  
-0.002652357332408428,  
0.00880205538123846,  
0.001841173623688519,  
-0.0038887010887265205,  
0.004874218255281448,  
0.037001363933086395,  
0.0063400412909686565,  
0.0028818370774388313,  
0.022528138011693954,



```

-0.009172068908810616,
-0.011776396073400974,
0.041413065046072006,
-0.029401853680610657,
-0.0488702617585659,
-0.04007532447576523,
-0.0028338064439594746,
-0.0011198249412700534,
-0.0009108028025366366,
0.0009615017916075885,
-0.02258506417274475,
0.017390640452504158,
-0.007599510718137026,
0.003182473126798868,
-0.014409185387194157,
-0.005044993478804827,
-0.006503701210021973,
-0.026427512988448143,
0.0019585818517953157,
-0.0004811956314370036,
-0.0017095342045649886,
-0.02870452031493187,
-0.030682669952511787,
0.00616570794954896,
0.0012532433029264212,
0.011135987006127834,
0.016679076477885246,
0.011940055526793003,
-0.017547184601426125,
0.011491769924759865,
-0.015967512503266335,
-0.02682598866522312,
0.004909796174615622,
...]}

```

```

In [18]: import requests
from datetime import datetime, timedelta

# GitHub repository information

repositories = [
    {"owner": "langchain-ai", "name": "langchain"},
    {"owner": "langchain-ai", "name": "langgraph"},
    {"owner": "microsoft", "name": "autogen"},
    {"owner": "openai", "name": "openai-cookbook"},
    {"owner": "elastic", "name": "elasticsearch"},
    {"owner": "milvus-io", "name": "pymilvus"}
]

```

```

# Accessing repository information
for repo in repositories:
    repo_owner = repo["owner"]
    repo_name = repo["name"]
    repo_url = f"https://github.com/{repo_owner}/{repo_name}"
    print(repo_url)

# Get the current date and date 2 months ago
current_date = datetime.now()
two_months_ago = current_date - timedelta(days=60)

# Format dates in ISO 8601 format
current_date_str = current_date.strftime("%Y-%m-%dT%H:%M:%SZ")
two_months_ago_str = two_months_ago.strftime("%Y-%m-%dT%H:%M:%SZ")

# GitHub API endpoint to retrieve commits
commits_url = f"{repo_url}/repos/{repo_owner}/{repo_name}/commits"

# Parameters for the GitHub API request
params = {
    "since": two_months_ago_str,
    "until": current_date_str
}

# Make the GET request to the GitHub API
response = requests.get(commits_url, params=params)

# Check if the request was successful
if response.status_code == 200:
    # Parse the JSON response
    commits_data = response.json()

```

```

https://github.com/langchain-ai/langchain
https://github.com/langchain-ai/langgraph
https://github.com/microsoft/autogen
https://github.com/openai/openai-cookbook
https://github.com/elastic/elasticsearch
https://github.com/milvus-io/pymilvus

```

## Part 2

## REQUIREMENT 2

1. <https://github.com/langchain-ai/langchain>
2. <https://github.com/langchain-ai/langgraph>
3. <https://github.com/microsoft/autogen>
4. <https://github.com/openai/openai-cookbook>
5. <https://github.com/elastic/elasticsearch>
6. <https://github.com/milvus-io/pymilvus>

Use vector embeddings, score, and semantic search to identify and list the Top 5 most similar issues for every repo listed above.

```
In [19]: import json

# List of repositories
repositories = [
    {"owner": "langchain-ai", "name": "langchain"},
    {"owner": "langchain-ai", "name": "langgraph"},
    {"owner": "microsoft", "name": "autogen"},
    {"owner": "openai", "name": "openai-cookbook"},
    {"owner": "elastic", "name": "elasticsearch"},
    {"owner": "milvus-io", "name": "pymilvus"}
]

responses = [] # Define responses list here

# Loop through each repository
for repo_info in repositories:
    repo_owner = repo_info["owner"]
    repo_name = repo_info["name"]

    # Perform semantic search for the current repository
    # Perform semantic search for the current repository
    response = es.search(
        index="pdgithub_issues",
        body={
            "query": {
                "bool": {
                    "must": {
                        "match_all": {}
                    },
                    "filter": {
                        "term": {
                            "_repo": f"{repo_owner}/{repo_name}" # Filter by repository
                        }
                    }
                }
            }
        },
    ),
```

```

        "knn": {
            "field": "GitHub_Issue_vector",
            "query_vector": hits['hits'][5]['_source']['GitHub_Issue_vec
            "k": 5, # Retrieve top 5 most similar issues
            "num_candidates": 10000
        }
    }
)

# Extract and format the top 5 most similar issues
similar_issues = []
for hit in response["hits"]["hits"]:
    similar_issue = {
        "_score": hit["_score"],
        "_type": hit["_source"]["_type"],
        "_repo": hit["_source"]["_repo"],
        "_issueNumber": hit["_source"]["_issueNumber"],
        "_title": hit["_source"]["_title"],
        "_createdAt": hit["_source"]["_createdAt"],
        "_closedAt": hit["_source"]["_closedAt"],
        "_body": hit["_source"]["_body"],
    }
    similar_issues.append(similar_issue)

# Store the top 5 most similar issues for the current repository
responses.extend(similar_issues)

# Print or store the top 5 most similar issues for the current repository
print(f"Top 5 most similar issues for {repo_owner}/{repo_name}:")
for issue in similar_issues:
    # print(issue)
    print(json.dumps(issue, indent=4))

```

Top 5 most similar issues for langchain-ai/langchain:

```

{
  "_score": 1.0,
  "_type": "issue",
  "_repo": "langchain",
  "_issueNumber": "28271",
  "_title": "PydanticUndefinedAnnotation: name 'SafetySetting' is not defi
ned using ChatVertexAI",
  "_createdAt": "2024-11-21T22:43:53Z",
  "_closedAt": "2024-12-31T00:36:30Z",
  "_body": "### Checked other resources\n\n- [X] I added a very descriptiv
e title to this issue.\n- [X] I searched the LangChain documentation with th
e integrated search.\n- [X] I used the GitHub search to find a similar quest
ion and didn't find it.\n- [X] I am sure that this is a bug in LangChain rat
her than my code.\n- [X] The bug is not resolved by updating to the latest s
table version of LangChain (or the specific integration package).\n\n### Exa
mple Code\n\n\npython\n\n\n# Ensure your VertexAI credentials are con

```

```

figured\r\n\r\nfrom langchain_google_vertexai import ChatVertexAI\r\n\r\nmodel = ChatVertexAI(model="gemini-1.5-flash")\r\n\r\nmodel.invoke("Hello, world!")\r\n\r\n```\n\n### Error Message and Stack Trace (if applicable)\n\n```python\r\n-----\r\n\r\nNameError                                Traceback (most recent call last)\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_generate_schema.py:815, in GenerateSchema._resolve_forward_ref(self, obj)\r\n    814 try:\r\n--> 815         obj = _typing_extra.eval_type_backport(obj, *self._types_namespace)\r\n    816 except NameError as e:\r\n\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:534, in eval_type_backport(value, globalns, localns, type_params)\r\n    533 try:\r\n--> 534         return _eval_type_backport(value, globalns, localns, type_params)\r\n    535 except TypeError as e:\r\n\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:558, in _eval_type_backport(value, globalns, localns, type_params)\r\n    557 try:\r\n--> 558         return _eval_type(value, globalns, localns, type_params)\r\n    559 except TypeError as e:\r\n\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:592, in _eval_type(value, globalns, localns, type_params)\r\n    591 else:\r\n--> 592         return typing._eval_type( # type: ignore\r\n    593             value, globalns, localns\r\n    594         )\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)\r\n    326 if isinstance(t, ForwardRef):\r\n--> 327         return t._evaluate(globalns, localns, recursive_guard)\r\n    328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:699, in ForwardRef._evaluate(self, globalns, localns, recursive_guard)\r\n    693 type_ = _type_check(\r\n    694     eval(self.__forward_code__, globalns, localns),\r\n    695     "Forward references must evaluate to types.",\r\n    696     is_argument=self.__forward_is_argument__,\r\n    697     allow_special_forms=self.__forward_is_class__,\r\n    698 )\r\n--> 699 self.__forward_value__ = _eval_type(\r\n    700     type_, globalns, localns, recursive_guard | {self.__forward_arg__})\r\n    701 )\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329         ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__args__)\r\n    330         if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329         ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__args__)\r\n    330         if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)\r\n    326 if isinstance(t, ForwardRef):\r\n--> 327         return t._evaluate(globalns, localns, recursive_guard)\r\n    328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:699, in ForwardRef._evaluate(self, globalns, localns, recursive_guard)\r\n    693 type_ = _type_check(\r\n    694     eval(self.__forward_code__, globalns, localns),\r\n    695     "Forward references must evaluate to types.",\r\n    696     is_argument=self.__forward_is_argument__,\r\n    697     allow_special_forms=self.__forward_is_class__,\r\n    698 )\r\n--> 699 self.__forward_value__ = _eval_type(\r\n    700     type_, globalns, localns, recursive_guard | {self.__forward_arg__})

```

```

s, recursive_guard | {self.__forward_arg__}\r\n    701 )\r\n    702 self.__f
orward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:32
9, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 if inst
ance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_a
rgs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__a
rgs__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/p
ython3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinstance(t, (_Gene
ricAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_args = tuple(_e
val_type(a, globalns, localns, recursive_guard) for a in t.__args__)\r\n
330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typi
ng.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 i
f isinstance(t, (_GenericAlias, Generi"
}
{
    "_score": 0.9323593,
    "_type": "issue",
    "_repo": "langchain",
    "_issueNumber": "28255",
    "_title": "Can't import ChatOpenAI: The `__modify_schema__` method is no
t supported in Pydantic v2. ",
    "_createdAt": "2024-11-21T10:40:40Z",
    "_closedAt": "2024-12-31T00:36:30Z",
    "_body": "### Checked other resources\n\n- [X] I added a very descriptiv
e title to this issue.\n- [X] I searched the LangChain documentation with th
e integrated search.\n- [X] I used the GitHub search to find a similar quest
ion and didn't find it.\n- [X] I am sure that this is a bug in LangChain rat
her than my code.\n- [X] The bug is not resolved by updating to the latest s
table version of LangChain (or the specific integration package).\n\n### Exa
mple Code\n\nThe following code straight from the docs fails already at the
import statement:\r\n```\r\nfrom typing import Optional\r\n\r\nfrom pydantic
import BaseModel, Field\r\n\r\nfrom langchain_openai import ChatOpenAI\r\n\r\n
llm = ChatOpenAI(model="gpt-4o-mini")\r\n\r\n\r\n# Pydantic\r\n\r\nclass Jok
e(BaseModel):\r\n    """Joke to tell user."""\r\n    setup: str =
Field(description="The setup of the joke")\r\n    punchline: str = Field(d
escription="The punchline to the joke")\r\n    rating: Optional[int] = Fie
ld(default=None, description="How funny the joke is, from 1 to 10")\r\n\r\n
\r\n\r\nstructured_llm = llm.with_structured_output(Joke)\r\n\r\n\r\nstructured_ll
m.invoke("Tell me a joke about cats")\r\n```\n\n### Error Message and Stac
k Trace (if applicable)\n\nC:\\Users\\Egor\\Dropbox\\Code\\langchain\\
\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: LangC
hainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydantic
v2 internally. The langchain_core.pydantic_v1 module was a compatibility shi
m for pydantic v1, and should no longer be used. Please update the code to i
mport from Pydantic directly.\r\n\r\nC:\\Users\\Egor\\Dropbox\\Code\\langcha
in\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: La
ngChainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydant
ic v2 internally. The langchain_core.pydantic_v1 module was a compatibility
shim for pydantic v1, and should no longer be used. Please update the code t
o import from Pydantic directly.\r\n\r\n\r\nFor example, replace imports like: `
from langchain_core.pydantic_v1 import BaseModel`\r\nwith: `from pydantic im

```

```

port BaseModel`\\r\\nor the v1 compatibility namespace if you are working in a
code base that has not been fully upgraded to pydantic 2 yet. \\tfrom pydanti
c.v1 import BaseModel\\r\\n\\r\\n  from langchain_openai.chat_models.azure impor
t AzureChatOpenAI\\r\\nC:\\\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\sit
e-packages\\pydantic\\_internal\\_config.py:345: UserWarning: Valid config k
eys have changed in V2:\\r\\n* 'allow_population_by_field_name' has been renam
ed to 'populate_by_name'\\r\\n  warnings.warn(message, UserWarning)\\r\\nTraceba
ck (most recent call last):\\r\\n  File \\<frozen importlib._bootstrap>\\", lin
e 1176, in _find_and_load\\r\\n  File \\<frozen importlib._bootstrap>\\", line
1147, in _find_and_load_unlocked\\r\\n  File \\<frozen importlib._bootstrap>
\\", line 690, in _load_unlocked\\r\\n  File \\<frozen importlib._bootstrap_ext
ernal>\\", line 940, in exec_module\\r\\n  File \\<frozen importlib._bootstrap>
\\", line 241, in _call_with_frames_removed\\r\\n  File \\<C:\\\\Users\\Egor\\Drop
box\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\__init__.py
\\", line 1, in <module>\\r\\n    from langchain_openai.chat_models import Azur
eChatOpenAI, ChatOpenAI\\r\\n  File \\<C:\\\\Users\\Egor\\Dropbox\\Code\\langchai
n\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py\\", lin
e 1, in <module>\\r\\n    from langchain_openai.chat_models.azure import Azure
ChatOpenAI\\r\\n  File \\<C:\\\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\part
ners\\openai\\langchain_openai\\chat_models\\azure.py\\", line 41, in <module
>\\r\\n    from langchain_openai.chat_models.base import BaseChatOpenAI\\r\\n  F
ile \\<C:\\\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\lan
gchain_openai\\chat_models\\base.py\\", line 353, in <module>\\r\\n    class Ba
seChatOpenAI(BaseChatModel):\\r\\n  File \\<C:\\\\Users\\Egor\\.conda\\envs\\motl
eycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py
\\", line 226, in __new__\\r\\n    complete_model_class(\\r\\n  File \\<C:\\\\Users\\
Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal
\\_model_construction.py\\", line 658, in complete_model_class\\r\\n    schema
= cls.__get_pydantic_core_schema__(cls, handler)\\r\\n    ~~~~~~
~~~~~\\r\\n  File \\<C:\\\\Users\\Egor\\.conda\\env
s\\motleycrew3.11\\Lib\\site-packages\\pydantic\\main.py\\", line 697, in __g
et_pydantic_core_schema__\\r\\n    return handler(source)\\r\\n    ~~~~~
~~~~~\\r\\n  File \\<C:\\\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\si
te-packages\\pydantic\\_internal\\_schema_generation_shared.py\\", line 84, i
n __call__\\r\\n    schema = self._handler(source_type)\\r\\n    ~~~~~
~~~~~\\r\\n  File \\<C:\\\\Users\\Egor\\.conda\\envs\\motleycrew3.
11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py\\", line 61
2, in generate_schema\\r\\n    schema = self._generate_schema_inner(obj)\\r\\n
~~~~~\\r\\n  File \\<C:\\\\Users\\Egor\\.conda\\envs\\
motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py
\\", line 881, in _generate_schema_inner\\r\\n    return self._model_schema(ob
j)\\r\\n    ~~~~~~\\r\\n  File \\<C:\\\\Users\\Egor\\.conda
\\envs\\motleycrew3.11\\
}
{
    "_score": 0.9279109,
    "_type": "issue",
    "_repo": "langchain",
    "_issueNumber": "27960",
    "_title": "dict[str, pydantic_model] annotation not working with structu

```

```

red output",
    "_createdAt": "2024-11-07T13:10:32Z",
    "_closedAt": "2024-12-31T00:36:30Z",
    "_body": "### Checked other resources\n\n- [X] I added a very descriptive title to this issue.\n- [X] I searched the LangChain documentation with the integrated search.\n- [X] I used the GitHub search to find a similar question and didn't find it.\n- [X] I am sure that this is a bug in LangChain rather than my code.\n- [X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\n\n### Example Code\n\n```\npython\nfrom __future__ import annotations\nfrom typing import Optional\nfrom unittest import TestCase\nfrom dotenv import load_dotenv\nfrom langchain_openai import ChatOpenAI\nfrom pydantic import Field, BaseModel\nload_dotenv()\n\nclass CustomTestExtractorPropertiesCreation(TestCase):\n    def test_with_structured_output_dict(self):\n        class Joke(BaseModel):\n            \"\"\"Joke to tell user.\"\"\"\n            setup: str = Field(description=\"The setup of the joke\")\n            punchline: str = Field(description=\"The punchline to the joke\")\n            rating: Optional[int] = Field(default=None, description=\"How funny the joke is, from 1 to 10\")\n\n        class MultipleJokes(BaseModel):\n            name_joke_pairs: dict[str, Joke] = Field(description=\"Dictionary of joke_name and joke pairs\")\n\n        ChatOpenAI(name=\"gpt-4o-mini\").with_structured_output(MultipleJokes).invoke(\"Generate a number of name-joke pairs\")\n\n### Error Message and Stack Trace (if applicable)\n\nError\nTraceback (most recent call last):\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/tests/integration/conversations/custom_test_extractor_properties_creation.py\", line 25, in test_with_structured_output_dict\n    MultipleJokes).invoke(\"Generate a number of name-joke pairs\")\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/base.py\", line 3024, in invoke\n    input = context.run(step.invoke, input, config)\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/base.py\", line 193, in invoke\n    return self._call_with_config\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/base.py\", line 1927, in _call_with_config\n    context.run\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/config.py\", line 396, in call_func_with_variable_args\n    return func(input, **kwargs) # type: ignore[call-arg]\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/base.py\", line 194, in <lambda>\n    lambda inner_input: self.parse_result\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/openai_tools.py\", line 298, in parse_result\n    raise e\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/openai_tools.py\", line 293, in parse_result\n    pydantic_objects.append(name_dict[res[\"type\"]](**res[\"args\"])))\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/pydantic/main.py\", line 212, in __init__\n    validated_self = self.__pydantic_validator_

```



```

}
{
  "_score": 0.92669773,
  "_type": "issue",
  "_repo": "langchain",
  "_issueNumber": "28106",
  "_title": "LangChain incorrectly applies strict (OpenAI's Structured Output) in schema generation from Pydantic model with union, causing OpenAI validation errors",
  "_createdAt": "2024-11-14T13:13:41Z",
  "_closedAt": "2024-12-31T00:36:30Z",
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```

file:///Users/purneshsv/Desktop/HW5\_ShiavrudrappaVidhyadhara\_Purn...er\_OpenAI\_Purnesh/Pull\_GitHub\_Issues/Pull\_Analytics\_Purnesh.html Page 346 of 397

```

in-openai==0.2.8\r\nlangchain-text-splitters==0.3.2\r\nlangsmith==0.1.143\r\n
nummultidict==6.1.0\r\nnumpy==1.26.4\r\nopenai==1.54.4\r\norjson==3.10.11\r\np
ackaging==24.2\r\npropcache==0.2.0\r\npydantic==2.9.2\r\npydantic_core==2.2
3.4\r\nPyYA"
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ion and didn't find it.\n- [X] I am sure that this is a bug in LangChain rat
her than my code.\n- [X] The bug is not resolved by updating to the latest s
table version of LangChain (or the specific integration package).\n\n### Exa
mple Code\n\n\u6211\u8fd0\u884c\u5b98\u65b9\u6587\u6837\u7ed9\u51fa\u7684\u7
93a\u4f8b\u4ee3\u7801\u51fa\u73b0\u62a5\u9519\u51fa\u73b0\u62a5\u9519
https://langchain-ai.github.io/langgraph/tutorials/code_assistant/langg
raph_code_assistant/#code-solution\n\n\u73af\u5883\u4fe1\u606f\u51fa\u73b0
langchain
0.3.7\r\nlanggraph
0.2.45\r\npydantic
2.9.2\r\npydantic_core
2.23.4\r\npydantic-settings
2.6.1\r\n
\n\n\n### Error Message and Stack Trace (if applicable)\n\nTraceback (mo
st recent call last):\r\n  File \"C:\\Program Files\\JetBrains\\PyCharm 202
3.3.2\\plugins\\python-ce\\helpers\\pydev\\pydevconsole.py\", line 364, in r
uncode\r\n    coro = func()\r\n  File \"<input>\", line 1, in <module>\r\n
  File \"C:\\Program Files\\JetBrains\\PyCharm 2023.3.2\\plugins\\python-ce\\h
elpers\\pydev\\_pydev_bundle\\_pydev_umd.py\", line 197, in runfile\r\n    py
dev_imports.execfile(filename, global_vars, local_vars) # execute the scrip
t\r\n  File \"C:\\Program Files\\JetBrains\\PyCharm 2023.3.2\\plugins\\pytho
n-ce\\helpers\\pydev\\_pydevimps\\_pydev_execfile.py\", line 18, in execfil
e\r\n    exec(compile(contents+\"\\n\\n\", file, 'exec'), glob, loc)\r\n  File
\"D:\\codes\\AIGC\\scientificProject\\llm.py\", line 56, in <module>\r\n
    solution = code_gen_chain_oai.invoke(\r\n  File \"C:\\Users\\anaconda3\\envs
\\langchain_env2\\lib\\site-packages\\langchain_core\\runnables\\base.py\",
line 3024, in invoke\r\n    input = context.run(step.invoke, input, config)\r\n
  File \"C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\l
angchain_core\\output_parsers\\base.py\", line 193, in invoke\r\n    return
self._call_with_config(\r\n  File \"C:\\Users\\anaconda3\\envs\\langchain_en
v2\\lib\\site-packages\\langchain_core\\runnables\\base.py\", line 1927, in
_call_with_config\r\n    context.run(\r\n  File \"C:\\Users\\anaconda3\\envs
\\langchain_env2\\lib\\site-packages\\langchain_core\\runnables\\config.py
\", line 396, in call_func_with_variable_args\r\n    return func(input, **kw
args) # type: ignore[call-arg]\r\n  File \"C:\\Users\\anaconda3\\envs\\lang
chain_env2\\lib\\site-packages\\langchain_core\\output_parsers\\base.py\", l
ine 194, in<lambda>\r\n    lambda inner input: self.parse result(\r\n  File

```

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"C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain_core\\output_parsers\\openai_tools.py", line 298, in parse_result
    raise e
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain_core\\output_parsers\\openai_tools.py", line 293, in parse_result
    pydantic_objects.append(name_dict[res["type"]](**res["args"]))
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\pydantic\\main.py", line 212, in __init__
    validated_self = self.__pydantic_validator__.validate_python(data, self_instance=self)
pydantic_core._pydantic_core.ValidationError: 3 validation errors for code_prefix
Field required [type=missing, input_value={}, input_type=dict]
For further information visit https://errors.pydantic.dev/2.9/v/missing
Field required [type=missing, input_value={}, input_type=dict]
For further information visit https://errors.pydantic.dev/2.9/v/missing
Field required [type=missing, input_value={}, input_type=dict]
For further information visit https://errors.pydantic.dev/2.9/v/missing
### Description
langgraph RAG
pydantic
System Info
naiohappyeyeballs==2.4.3
naiohttp==3.10.10
naiosignal==1.3.1
annotated-types==0.7.0
anthropic==0.38.0
anyio==4.6.2
async-timeout==4.0.3
attrs==24.2.0
beautifulsoup4==4.12.3
bs4==0.0.2
certifi==2024.8.30
charset-normalizer==3.4.0
colorama==0.4.6
dataclasses-json==0.6.7
defusedxml==0.7.1
distro==1.9.0
exceptiongroup==1.2.2
filelock==3.16.1
frozenlist==1.5.0
fsspec==2024.10.0
greenlet==3.1.1
h11==0.14.0
httpcore==1.0.6
httpx==0.27.2
httpx-sse==0.4.0
huggingface-hub==0.26.2
idna==3.10
jiter==0.7.0
jsonpatch==1.33
jsonpointer==3.0.0
langchain==0.3.7
langchain-anthropic==0.2.4
langchain-community==0.3.5
langchain-core==0.3.15
langchain-openai==0.2.5
langchain-text-splitters==0.3.2
langgraph==0.2.45
langgraph-checkpoint==2.0.2
langgraph-sdk==0.1.35
langsmith==0.1.139
marshmallow==3.23.1
msgpack==1.1.0
multidict==6.1.0
mypy-extensions==1.0.0
numpy==1.26.4
openai==1.53.0
orjson==3.10.11
packaging==24.1
propcache==0.2.0
pydantic==2.9.2
pydantic-settings==2.6.1
pydantic_core==2.23.4
python-dotenv==1.0.1
PyYAML==6.0.2
regex==2024.9.11
requests==2.32.3
requests-toolbelt==1.0.0
sniffio==1.3.1
soupsieve==2.6
SQLAlchemy==2.0.35
tenacity==9.0.0
tiktoken==0.8.0
tokenizers==0.20.1
tqdm==4.66.6
typing-inspect==0.9.0
typing_extensions==4.12.2
urllib3==2.2.3
yarl==1.17.1"
```

```
}
Top 5 most similar issues for langchain-ai/langgraph:
{
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    "_score": 1.0,
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    "_closedAt": "2024-12-31T00:36:30Z",
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```

"_body": "### Checked other resources\n\n- [X] I added a very descriptive title to this issue.\n- [X] I searched the LangChain documentation with the integrated search.\n- [X] I used the GitHub search to find a similar question and didn't find it.\n- [X] I am sure that this is a bug in LangChain rather than my code.\n- [X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\n\n### Example Code\n\n\npython\n\n# Ensure your VertexAI credentials are configured\nfrom langchain_google_vertexai import ChatVertexAI\n\nmodel = ChatVertexAI(model=\"gemini-1.5-flash\")\nmodel.invoke(\"Hello, world!\")\n\n### Error Message and Stack Trace (if applicable)\n\npython\n-----\n\nNameError                                Traceback (most recent call last)\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_generate_schema.py:815, in GenerateSchema._resolve_forward_ref(self, obj)\n    814 try:\n    815     obj = _typing_extra.eval_type_backport(obj, *self._types_namespace)\n    816 except NameError as e:\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:534, in eval_type_backport(value, globalns, localns, type_params)\n    533 try:\n    534     return _eval_type_backport(value, globalns, localns, type_params)\n    535 except TypeError as e:\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:558, in _eval_type_backport(value, globalns, localns, type_params)\n    557 try:\n    558     return _eval_type(value, globalns, localns, type_params)\n    559 except TypeError as e:\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:592, in _eval_type(value, globalns, localns, type_params)\n    591 else:\n    592     return typing._eval_type( # type: ignore\n    593         value, globalns, localns\n    594     )\nFile /opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)\n    326 if isinstance(t, ForwardRef):\n    327     return t._evaluate(globalns, localns, recursive_guard)\n    328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\nFile /opt/conda/lib/python3.10/typing.py:699, in ForwardRef._evaluate(self, globalns, localns, recursive_guard)\n    693 type_ = _type_check(\n    694     eval(self.__forward_code__, globalns, localns),\n    695     \"Forward references must evaluate to types.\",\n    696     is_argument=self.__forward_is_argument__,\n    697     allow_special_forms=self.__forward_is_class__,\n    698 )\n    699 self.__forward_value__ = _eval_type(\n    700     type_, globalns, localns, recursive_guard | {self.__forward_arg__}\n    701 )\n    702 self.__forward_evaluated__ = True\nFile /opt/conda/lib/python3.10/typing.py:329, in _eval_type(t, globalns, localns, recursive_guard)\n    328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\n    329     ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__args__)\n    330     if ev_args == t.__args__:\nFile /opt/conda/lib/python3.10/typing.py:329, in <genexpr>(.0)\n    328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\n    329     ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__args__)\n    330     if ev_args == t.__args__:\nFile /opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)\n    326 if isinstance(t, ForwardRef):\n    327     return t._evaluate(globalns, localns, recursive_guard)\n    328 if isinstance(t, (_GenericAli

```

```

as, GenericAlias, types.UnionType)):
File /opt/conda/lib/python3.10/typing.py:699, in ForwardRef._evaluate(self, globalns, localns, recursive_guard)
693 type_ = _type_check(
694     eval(self.__forward_code__, globalns, localns),
695     "Forward references must evaluate to types.",
696     is_argument=self.__forward_is_argument__,
697     allow_special_forms=self.__forward_is_class__,
698 )
699 self.__forward_value__ = _eval_type(
700     type_, globalns, localns, recursive_guard | {self.__forward_arg__}
701 )
702 self.__forward_evaluated__ = True
File /opt/conda/lib/python3.10/typing.py:329, in _eval_type(t, globalns, localns, recursive_guard)
328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):
329     ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__args__)
330     if ev_args == t.__args__:
File /opt/conda/lib/python3.10/typing.py:329, in <genexpr>(.0)
328 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):
329     ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__args__)
330     if ev_args == t.__args__:
File /opt/conda/lib/python3.10/typing.py:329, in _eval_type(t, globalns, localns, recursive_guard)
328 if isinstance(t, (_GenericAlias, Generi"
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    "_createdAt": "2024-11-21T10:40:40Z",
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```

```

import from Pydantic directly.\r\n\r\nC:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: LangChainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydantic v2 internally. The langchain_core.pydantic_v1 module was a compatibility shim for pydantic v1, and should no longer be used. Please update the code to import from Pydantic directly.\r\n\r\nFor example, replace imports like: `from langchain_core.pydantic_v1 import BaseModel` with: `from pydantic import BaseModel` or the v1 compatibility namespace if you are working in a code base that has not been fully upgraded to pydantic 2 yet. \r\nfrom pydantic.v1 import BaseModel\r\n\r\n from langchain_openai.chat_models.azure import AzureChatOpenAI\r\nC:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_config.py:345: UserWarning: Valid config keys have changed in V2:\r\n* 'allow_population_by_field_name' has been renamed to 'populate_by_name'\r\n warnings.warn(message, UserWarning)\r\nTraceback (most recent call last):\r\n  File "<frozen importlib._bootstrap>", line 1176, in _find_and_load\r\n  File "<frozen importlib._bootstrap>", line 1147, in _find_and_load_unlocked\r\n  File "<frozen importlib._bootstrap>", line 690, in _load_unlocked\r\n  File "<frozen importlib._bootstrap_external>", line 940, in exec_module\r\n  File "<frozen importlib._bootstrap>", line 241, in _call_with_frames_removed\r\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\__init__.py", line 1, in <module>\r\n    from langchain_openai.chat_models import AzureChatOpenAI, ChatOpenAI\r\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py", line 1, in <module>\r\n    from langchain_openai.chat_models.azure import AzureChatOpenAI\r\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\azure.py", line 41, in <module>\r\n    from langchain_openai.chat_models.base import BaseChatOpenAI\r\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\base.py", line 353, in <module>\r\n    class BaseChatOpenAI(BaseChatModel):\r\n  File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py", line 226, in __new__\r\n    complete_model_class(\r\n  File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py", line 658, in complete_model_class\r\n    schema = cls.__get_pydantic_core_schema__(cls, handler)\r\n    ~~~~~~\r\n    ~~~~~~\r\n  File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\main.py", line 697, in __get_pydantic_core_schema__\r\n    return handler(source)\r\n    ~~~~~~\r\n    ~~~~~~\r\n  File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_schema_generation_shared.py", line 84, in __call__\r\n    schema = self._handler(source_type)\r\n    ~~~~~~\r\n    ~~~~~~\r\n  File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py", line 612, in generate_schema\r\n    schema = self._generate_schema_inner(obj)\r\n    ~~~~~~\r\n    ~~~~~~\r\n  File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py", line 881, in _generate_schema_inner\r\n    return self._model_schema(obj)\r\n    ~~~~~~\r\n    ~~~~~~\r\n  File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\

```

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```



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langchain_core/output_parsers/openai_tools.py", line 298, in parse_result\r
\n    raise e\r\n File \"/home/filip/work/llm-bot-framework/llm-bot-framewo
rk/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/openai_t
ools.py", line 293, in parse_result\r\n    pydantic_objects.append(name_dic
t[res[\"type\"]](**res[\"args\"])\r\n File \"/home/filip/work/llm-bot-fram
ework/llm-bot-framework/.venv/lib/python3.10/site-packages/pydantic/main.py
\", line 212, in __init__\r\n    validated_self = self.__pydantic_validator_
_.validate_python(data, self_instance=self)\r\npydantic_core._pydantic_core.
ValidationError: 1 validation error for MultipleJokes\r\nname_joke_pairs\r\n
Field required [type=missing, input_value={}, input_type=dict]\r\n For fu
rther information visit https://errors.pydantic.dev/2.9/v/missing\n\n### Des
cription\n\nI am trying to create MultipleJokes Pydantic Model (example). \r
\n**Expected result:**\r\nMultipleJokes object is created no error is return
ed\r\n**Actual result:**\r\nMissing field exception is raised on Pydantic va
lidation \n\n### System Info\n\nSystem Information\r\n-----\r\n
n> OS: Linux\r\n> OS Version: #48-Ubuntu SMP PREEMPT_DYNAMIC Fri Sep 27 1
4:04:52 UTC 2024\r\n> Python Version: 3.10.15 (main, Sep 7 2024, 18:35:38)
[GCC 13.2.0]\r\n\r\nPackage Information\r\n-----\r\n> langchai
n_core: 0.3.15\r\n> langchain: 0.3.7\r\n> langsmith: 0.1.134\r\n> langchain_
anthropic: 0.2.3\r\n> langchain_google_genai: 2.0.1\r\n> langchain_groq: 0.
2.0\r\n> langchain_nvidia: Installed. No version info available.\r\n> langch
ain_nvidia_ai_endpoints: 0.3.0\r\n> langchain_openai: 0.2.2\r\n> langchain_t
ext_splitters: 0.3.0\r\n> langgraph: 0.2.38\r\n\r\nOptional packages not ins
talled\r\n-----\r\n> langserve\r\n\r\nOther Depend
encies\r\n-----\r\n> aiohttp: 3.10.10\r\n> anthropic: 0.36.0\r
n> async-timeout: 4.0.3\r\n> defusedxml: 0.7.1\r\n> google-generativeai: 0.
8.3\r\n> groq: 0.11.0\r\n> httpx: 0.26.0\r\n> jsonpatch: 1.33\r\n> langgraph
-checkpoint: 2.0.1\r\n> langgraph-sdk: 0.1.33\r\n> numpy: 1.26.4\r\n> opena
i: 1.51.2\r\n> orjson: 3.10.7\r\n> packaging: 24.1\r\n> pillow: 10.4.0\r\n>
pydantic: 2.9.2\r"
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{
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ut) in schema generation from Pydantic model with union, causing OpenAI vali
dation errors",
    "_createdAt": "2024-11-14T13:13:41Z",
    "_closedAt": "2024-12-31T00:36:30Z",
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ptive title to this issue.\r\n- [X] I searched the LangChain documentation w
ith the integrated search.\r\n- [X] I used the GitHub search to find a simil
ar question and didn't find it.\r\n- [X] I am sure that this is a bug in Lan
gChain rather than my code.\r\n- [X] The bug is not resolved by updating to
the latest stable version of LangChain (or the specific integration packag
e).\r\n\r\n### Example Code\r\n\r\n``python\r\nimport getpass\r\nimport os\r
\nfrom typing import Union\r\n\r\nfrom langchain_openai import ChatOpenAI\r
\nfrom openai import OpenAI\r\nfrom pydantic import BaseModel, Field\r\n\r\n

```

file:///Users/purneshsv/Desktop/HW5\_ShiavrudrappaVidhyadhara\_Purn...er\_OpenAI\_Purnesh/Pull\_GitHub\_Issues/Pull\_Analytics\_Purnesh.html Page 354 of 397

```
rties': False}, 'strict': True}\r\n```\r\n\r\n### System Info\r\n\r\n\r\nnaiohappyeyeballs==2.4.3\r\n\r\nnaiohttp==3.11.0\r\n\r\naiosignal==1.3.1\r\n\r\nannotated-types==0.7.0\r\n\r\nanyio==4.6.2.post1\r\n\r\nasynctest==4.0.3\r\n\r\nattrs==24.2.0\r\n\r\nbcrypt==2024.8.30\r\n\r\ncharset-normalizer==3.4.0\r\n\r\ndistro==1.9.0\r\n\r\nexceptiongroup==1.2.2\r\n\r\nfrozenlist==1.5.0\r\n\r\ngreenlet==3.1.1\r\n\r\nh11==0.14.0\r\n\r\nhttpcore==1.0.6\r\n\r\nhttpx==0.27.2\r\n\r\nidna==3.10\r\n\r\njiter==0.7.1\r\n\r\njsonpatch==1.33\r\n\r\njsonpinter==3.0.0\r\n\r\nlangchain==0.3.7\r\n\r\nlangchain-core==0.3.18\r\n\r\nlangchain-openai==0.2.8\r\n\r\nlangchain-text-splitters==0.3.2\r\n\r\nlangsmith==0.1.143\r\n\r\nmultidict==6.1.0\r\n\r\nnumpy==1.26.4\r\n\r\nopenai==1.54.4\r\n\r\norjson==3.10.11\r\n\r\npackaging==24.2\r\n\r\npropcache==0.2.0\r\n\r\npydantic==2.9.2\r\n\r\npydantic_core==2.23.4\r\n\r\nPyYAML
```

```
}  
{  
    "_score": 0.92288905,  
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    "_issueNumber": "28021",  
    "_title": "\u5728langgraph \u4e2d\u8fd0\u884c\u4f7f\u7528RAG\u7684\u793a\u4f8b\u4ee3\u7801\u51fa\u73b0\u7684\u9519\u8bef",  
    "_createdAt": "2024-11-11T13:54:06Z",  
    "_closedAt": "2024-12-31T00:36:30Z",  
    "_body": "### Checked other resources\n[X] I added a very descriptive title to this issue.\n[X] I searched the LangChain documentation with the integrated search.\n[X] I used the GitHub search to find a similar question and didn't find it.\n[X] I am sure that this is a bug in LangChain rather than my code.\n[X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\n\n### Example Code\n\n```python  
from langgraph.graph import StateGraph, END  
from typing_extensions import TypedDict  
  
state = TypedDict("state", {"messages": list[str], "history": list[str]})  
  
def func(state: state) -> str:  
    return "Hello, world!"  
  
graph TD  
    start(( )) --> func(func)  
    func --> end((END))  
  
app = StateGraph(state).add_node(func).compile()  
app.invoke({})
```

```
Traceback (most recent call last):  
  File "C:\Program Files\JetBrains\PyCharm 2023.3.2\plugins\python-ce\helpers\pydev\pydevconsole.py", line 364, in run_code  
    coro = func()\br/>  File "<input>", line 1, in <module>  
  File "C:\Program Files\JetBrains\PyCharm 2023.3.2\plugins\python-ce\helpers\pydev\_pydev_bundle\_pydev_umd.py", line 197, in runfile  
    pydev_imports.execfile(filename, global_vars, local_vars) # execute the script  
  File "C:\Program Files\JetBrains\PyCharm 2023.3.2\plugins\python-ce\helpers\pydev\_pydevimps\_pydev_execfile.py", line 18, in execfile  
    exec(compile(contents+"\n", file, 'exec'), glob, loc)  
  File "D:\codes\AIGC\scientificProject\llm.py", line 56, in <module>  
    solution = code_gen_chain_oai.invoke(  
  File "C:\Users\anaconda3\envs\langchain_env2\lib\site-packages\langchain_core\runnables\base.py", line 3024, in invoke  
    input = context.run(step.invoke, input, config)  
  File "C:\Users\anaconda3\envs\langchain_env2\lib\site-packages\langchain_core\output_parsers\base.py", line 193, in invoke  
    return self.call_with_config(  
  File "C:\Users\anaconda3\envs\langchain_en
```

```
"_score": 1.0,
```

```

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    "_repo": "langchain",
    "_issueNumber": "28271",
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ned using ChatVertexAI",
    "_createdAt": "2024-11-21T22:43:53Z",
    "_closedAt": "2024-12-31T00:36:30Z",
    "_body": "### Checked other resources\n\n- [X] I added a very descriptiv
e title to this issue.\n- [X] I searched the LangChain documentation with th
e integrated search.\n- [X] I used the GitHub search to find a similar quest
ion and didn't find it.\n- [X] I am sure that this is a bug in LangChain rat
her than my code.\n- [X] The bug is not resolved by updating to the latest s
table version of LangChain (or the specific integration package).\n\n### Exa
mple Code\n\n\npython\n\n# Ensure your VertexAI credentials are con
figured\n\nfrom langchain_google_vertexai import ChatVertexAI\n\nmodel = ChatVertexAI(model=\n"gemini-1.5-flash"\n)\n\nmodel.invoke(\n"Hello, w
orld!")\n\n\n\n\n### Error Message and Stack Trace (if applicable)\n\n
python\n\n-----
-----\n\nNameError                                Traceback (most re
cent call last)\n\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_in
ternal/_generate_schema.py:815, in GenerateSchema._resolve_forward_ref(self,
obj)\n\n    814 try:\n\n--> 815         obj = _typing_extra.eval_type_backport(o
bj, *self._types_namespace)\n\n    816 except NameError as e:\n\n\n\nFile /o
pt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:53
4, in eval_type_backport(value, globalns, localns, type_params)\n\n    533 t
ry:\n\n--> 534         return _eval_type_backport(value, globalns, localns, type
_params)\n\n    535 except TypeError as e:\n\n\n\nFile /opt/conda/lib/python
3.10/site-packages/pydantic/_internal/_typing_extra.py:558, in _eval_type_ba
ckport(value, globalns, localns, type_params)\n\n    557 try:\n\n--> 558
return _eval_type(value, globalns, localns, type_params)\n\n    559 except T
ypeError as e:\n\n\n\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_
internal/_typing_extra.py:592, in _eval_type(value, globalns, localns, type
_params)\n\n    591 else:\n\n--> 592         return typing._eval_type( # type:
ignore\n\n    593             value, globalns, localns\n\n    594         )\n\n\n\nFile /opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, globalns, loca
lns, recursive_guard)\n\n    326 if isinstance(t, ForwardRef):\n\n--> 327
return t._evaluate(globalns, localns, recursive_guard)\n\n    328 if isinsta
nce(t, (_GenericAlias, GenericAlias, types.UnionType)):\n\n\n\nFile /opt/con
da/lib/python3.10/typing.py:699, in ForwardRef._evaluate(self, globalns, loc
als, recursive_guard)\n\n    693 type_ = _type_check(\n\n    694     eval(s
elf.__forward_code__, globalns, localns),\n\n    695     \n"Forward reference
s must evaluate to types.\n",\n\n    696     is_argument=self.__forward_is_ar
gument__,\n\n    697     allow_special_forms=self.__forward_is_class__,\n\n
698 )\n\n--> 699 self.__forward_value__ = _eval_type(\n\n    700     type_,
globalns, localns, recursive_guard | {self.__forward_arg__}\n\n    701 )\n\n
702 self.__forward_evaluated__ = True\n\n\n\nFile /opt/conda/lib/python3.10/
typing.py:329, in _eval_type(t, globalns, localns, recursive_guard)\n\n    3
28 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\n\n-->
329     ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) fo
r a in t.__args__)\n\n    330     if ev_args == t.__args__:\n\n\n\nFile /op

```

```

t/conda/lib/python3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinsta
nce(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_ar
gs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__ar
gs__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/py
thon3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)
\r\n    326 if isinstance(t, ForwardRef):\r\n--> 327     return t._evaluate(
globalns, localns, recursive_guard)\r\n    328 if isinstance(t, (_GenericAli
as, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/conda/lib/python3.10/t
yping.py:699, in ForwardRef._evaluate(self, globalns, localns, recursive_gua
rd)\r\n    693 type_ = _type_check(\r\n    694     eval(self.__forward_code_
_, globalns, localns),\r\n    695     "Forward references must evaluate to
types.",\r\n    696     is_argument=self.__forward_is_argument__,\r\n    69
7     allow_special_forms=self.__forward_is_class__,\r\n    698 )\r\n--> 699
self.__forward_value__ = _eval_type(\r\n    700     type_, globalns, localn
s, recursive_guard | {self.__forward_arg__}\r\n    701 )\r\n    702 self.__f
orward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:32
9, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 if isinst
ance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_a
rgs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__a
rgs__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/p
ython3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinstance(t, (_Gene
ricAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_args = tuple(_e
val_type(a, globalns, localns, recursive_guard) for a in t.__args__)\r\n
330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typi
ng.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 i
f isinstance(t, (_GenericAlias, Generi"
}
{
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    "_repo": "langchain",
    "_issueNumber": "28255",
    "_title": "Can't import ChatOpenAI: The `__modify_schema__` method is no
t supported in Pydantic v2. ",
    "_createdAt": "2024-11-21T10:40:40Z",
    "_closedAt": "2024-12-31T00:36:30Z",
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e title to this issue.\n- [X] I searched the LangChain documentation with th
e integrated search.\n- [X] I used the GitHub search to find a similar quest
ion and didn't find it.\n- [X] I am sure that this is a bug in LangChain rat
her than my code.\n- [X] The bug is not resolved by updating to the latest s
table version of LangChain (or the specific integration package).\n\n### Exa
mple Code\n\nThe following code straight from the docs fails already at the
import statement:\r\n```\r\nfrom typing import Optional\r\n\r\nfrom pydantic
import BaseModel, Field\r\n\r\nfrom langchain_openai import ChatOpenAI\r\n\r\nr
llm = ChatOpenAI(model="gpt-4o-mini")\r\n\r\n\r\n# Pydantic\r\n\r\nclass Jok
e(BaseModel):\r\n    \r\n    "Joke to tell user.\r\n\r\n\r\n    setup: str =
Field(description="The setup of the joke")\r\n    punchline: str = Field(d
escription="The punchline to the joke")\r\n    rating: Optional[int] = Fie
ld(default=None, description="How funny the joke is, from 1 to 10")\r\n\r\n

```

```
n\r\nstructured_llm = llm.with_structured_output(Joke)\r\n\r\nstructured_llm.invoke("Tell me a joke about cats")\r\n\r\n### Error Message and Stack Trace (if applicable)\r\n\r\nC:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: LangChainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydantic v2 internally. The langchain_core.pydantic_v1 module was a compatibility shim for pydantic v1, and should no longer be used. Please update the code to import from Pydantic directly.\r\n\r\nC:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: LangChainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydantic v2 internally. The langchain_core.pydantic_v1 module was a compatibility shim for pydantic v1, and should no longer be used. Please update the code to import from Pydantic directly.\r\n\r\nFor example, replace imports like: `from langchain_core.pydantic_v1 import BaseModel`\r\nwith: `from pydantic import BaseModel`\r\nor the v1 compatibility namespace if you are working in a code base that has not been fully upgraded to pydantic 2 yet. \tfrom pydantic.v1 import BaseModel\r\n\r\n   from langchain_openai.chat_models.azure import AzureChatOpenAI\r\nC:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_config.py:345: UserWarning: Valid config keys have changed in V2:\r\n* 'allow_population_by_field_name' has been renamed to 'populate_by_name'\r\n warnings.warn(message, UserWarning)\r\nTraceback (most recent call last):\r\n File "<frozen importlib._bootstrap>", line 1176, in _find_and_load\r\n File "<frozen importlib._bootstrap>", line 1147, in _find_and_load_unlocked\r\n File "<frozen importlib._bootstrap>", line 690, in _load_unlocked\r\n File "<frozen importlib._bootstrap_external>", line 940, in exec_module\r\n File "<frozen importlib._bootstrap>", line 241, in _call_with_frames_removed\r\n File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\__init__.py", line 1, in <module>\r\n   from langchain_openai.chat_models import AzureChatOpenAI, ChatOpenAI\r\n File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py", line 1, in <module>\r\n   from langchain_openai.chat_models.azure import AzureChatOpenAI\r\n File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\azure.py", line 41, in <module>\r\n   from langchain_openai.chat_models.base import BaseChatOpenAI\r\n File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\base.py", line 353, in <module>\r\n   class BaseChatOpenAI(BaseChatModel):\r\n File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py", line 226, in __new__\r\n   complete_model_class(\r\n File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py", line 658, in complete_model_class\r\n schema = cls.__get_pydantic_core_schema__(cls, handler)\r\n~~~~~  
~~~~~\r\n File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\main.py", line 697, in __get_pydantic_core_schema__\r\n return handler(source)\r\n~~~~~  
~~~~~\r\n File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_schema_generation_shared.py", line 84, in __call__\r\n schema = self.handler(source_type)\r\n~~~~~  
~~~~~\r\n File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.
```

```

11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py", line 61
2, in generate_schema\r\n    schema = self._generate_schema_inner(obj)\r\n
~~~~~\r\n    File "C:\\Users\\Egor\\.conda\\envs\\
motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py
", line 881, in _generate_schema_inner\r\n    return self._model_schema(ob
j)\r\n    ~~~~~\r\n    File "C:\\Users\\Egor\\.conda
\\envs\\motleycrew3.11\\"
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e title to this issue.\n- [X] I searched the LangChain documentation with th
e integrated search.\n- [X] I used the GitHub search to find a similar quest
ion and didn't find it.\n- [X] I am sure that this is a bug in LangChain rat
her than my code.\n- [X] The bug is not resolved by updating to the latest s
table version of LangChain (or the specific integration package).\n\n### Exa
mple Code\n\n```\npython \r\nfrom __future__ import annotations\r\n\r\nfrom ty
ping import Optional\r\n\r\nfrom unittest import TestCase\r\n\r\n\r\nfrom dotenv imp
ort load_dotenv\r\n\r\nfrom langchain_openai import ChatOpenAI\r\n\r\nfrom pydantic
import Field, BaseModel\r\n\r\n\r\nload_dotenv()\r\n\r\nclass CustomTestExtractorPro
pertiesCreation(TestCase):\r\n    def test_with_structured_output_dict(sel
f):\r\n        class Joke(BaseModel):\r\n            \r\n\r\n            Joke to tell use
r.\r\n\r\n\r\n            setup: str = Field(description=\r\nThe setup of th
e joke\r\n)\r\n            punchline: str = Field(description=\r\nThe punchline
to the joke\r\n)\r\n            rating: Optional[int] = Field(\r\n
default=None, description=\r\nHow funny the joke is, from 1 to 10\r\n)\r\n
)\r\n            class MultipleJokes(BaseModel):\r\n                name_joke_pairs:
dict[str, Joke] = Field(description=\r\nDictionary of joke_name and joke pairs
\r\n)\r\n\r\n\r\n            ChatOpenAI(name=\r\n"gpt-4o-mini\r\n").with_structured_output(\r\n
MultipleJokes).invoke(\r\n"Generate a number of name-joke pairs
\r\n")\r\n\r\n\r\n\n\n### Error Message and Stack Trace (if applicable)\n\nError\r\n
Traceback (most recent call last):\r\n    File \"/home/filip/work/llm-bot-fram
ework/llm-bot-framework/tests/integration/conversations/custom_test_extracto
r_properties_creation.py", line 25, in test_with_structured_output_dict\r\n
MultipleJokes).invoke(\r\n"Generate a number of name-joke pairs\r\n")\r\n    File
"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/
site-packages/langchain_core/runnables/base.py", line 3024, in invoke\r\n
input = context.run(step.invoke, input, config)\r\n    File \"/home/filip/wor
k/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/lan
gchain_core/output_parsers/base.py", line 193, in invoke\r\n    return sel
f._call_with_config(\r\n    File \"/home/filip/work/llm-bot-framework/llm-bot-
framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/base.p
y", line 1927, in _call_with_config\r\n        context.run(\r\n    File \"/home/f

```



```

ilip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-pack
ages/langchain_core/runnables/config.py", line 396, in call_func_with_varia
ble_args\r\n    return func(input, **kwargs) # type: ignore[call-arg]\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python
3.10/site-packages/langchain_core/output_parsers/base.py", line 194, in <la
mbda>\r\n    lambda inner_input: self.parse_result(\r\n File \"/home/filip/
work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/
langchain_core/output_parsers/openai_tools.py", line 298, in parse_result\r
\r\n    raise e\r\n File \"/home/filip/work/llm-bot-framework/llm-bot-framewo
rk/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/openai_t
ools.py", line 293, in parse_result\r\n    pydantic_objects.append(name_dic
t[res[\"type\"]](**res[\"args\"])))\r\n File \"/home/filip/work/llm-bot-fram
ework/llm-bot-framework/.venv/lib/python3.10/site-packages/pydantic/main.py
\", line 212, in __init__\r\n    validated_self = self.__pydantic_validator_
_.validate_python(data, self_instance=self)\r\npydantic_core._pydantic_core.
ValidationError: 1 validation error for MultipleJokes\r\nname_joke_pairs\r\n
Field required [type=missing, input_value={}, input_type=dict]\r\n    For fu
rther information visit https://errors.pydantic.dev/2.9/v/missing\r\n\r\n### Des
cription\r\n\r\nI am trying to create MultipleJokes Pydantic Model (example). \r
\r\n**Expected result:**\r\nMultipleJokes object is created no error is return
ed\r\n\r\n**Actual result:**\r\nMissing field exception is raised on Pydantic va
lidation \r\n\r\n### System Info\r\n\r\nSystem Information\r\n-----\r\n
n> OS: Linux\r\nn> OS Version: #48-Ubuntu SMP PREEMPT_DYNAMIC Fri Sep 27 1
4:04:52 UTC 2024\r\nn> Python Version: 3.10.15 (main, Sep 7 2024, 18:35:38)
[GCC 13.2.0]\r\n\r\n\r\nPackage Information\r\n-----\r\nn> langchai
n_core: 0.3.15\r\nn> langchain: 0.3.7\r\nn> langsmith: 0.1.134\r\nn> langchain_
anthropic: 0.2.3\r\nn> langchain_google_genai: 2.0.1\r\nn> langchain_groq: 0.
2.0\r\nn> langchain_nvidia: Installed. No version info available.\r\nn> langch
ain_nvidia_ai_endpoints: 0.3.0\r\nn> langchain_openai: 0.2.2\r\nn> langchain_t
ext_splitters: 0.3.0\r\nn> langgraph: 0.2.38\r\n\r\nOptional packages not ins
talled\r\n-----\r\nn> langserve\r\n\r\n\r\nOther Depend
encies\r\n-----\r\nn> aiohttp: 3.10.10\r\nn> anthropic: 0.36.0\r\n
n> async-timeout: 4.0.3\r\nn> defusedxml: 0.7.1\r\nn> google-generativeai: 0.
8.3\r\nn> groq: 0.11.0\r\nn> httpx: 0.26.0\r\nn> jsonpatch: 1.33\r\nn> langgraph
-checkpoint: 2.0.1\r\nn> langgraph-sdk: 0.1.33\r\nn> numpy: 1.26.4\r\nn> opena
i: 1.51.2\r\nn> orjson: 3.10.7\r\nn> packaging: 24.1\r\nn> pillow: 10.4.0\r\nn>
pydantic: 2.9.2\r\n"
}
{
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ut) in schema generation from Pydantic model with union, causing OpenAI vali
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    "_createdAt": "2024-11-14T13:13:41Z",
    "_closedAt": "2024-12-31T00:36:30Z",
    "_body": "### Checked other resources\r\n\r\n\r\n- [X] I added a very descri
ptive title to this issue.\r\n\r\n- [X] I searched the LangChain documentation w

```

file:///Users/purneshsv/Desktop/HW5%20ShiavrudrappaVidhyadhara%20Purn...er%20OpenAI%20Purnesh/Pull%20GitHub%20Issues/Pull%20Analytics%20Purnesh.html Page 362 of 397

```

pes or tables representing the data sources.', 'items': {'anyOf': [{'properties': {'cooked_recipe_name': {'description': 'Recipe name.', 'title': 'Cooked Recipe Name', 'type': 'string'}}, 'required': ['cooked_recipe_name'], 'title': 'Cooked', 'type': 'object'}, {'properties': {'baked_recipe_name': {'description': 'Recipe name.', 'title': 'Baked Recipe Name', 'type': 'string'}}, 'required': ['baked_recipe_name'], 'title': 'Baked', 'type': 'object'}]}, 'type': 'array'}}, 'required': ['recipes'], 'type': 'object', 'additionalProperties': False}, 'strict': True}\r\n```\r\n\r\n### System Info\r\n\r\n\r\nnaiohappyeyeballs==2.4.3\r\nnaiohttp==3.11.0\r\nnaiosignal==1.3.1\r\nannotated-types==0.7.0\r\nanyio==4.6.2.post1\r\nasynctest==4.0.3\r\nattrs==24.2.0\r\ncertifi==2024.8.30\r\ncharset-normalizer==3.4.0\r\ncloudpickle==1.9.0\r\nexceptiongroup==1.2.2\r\nfrozenlist==1.5.0\r\ngreenlet==3.1.1\r\nh11==0.14.0\r\nhttpcore==1.0.6\r\nhttpx==0.27.2\r\nidna==3.10\r\njiter==0.7.1\r\njsonpatch==1.33\r\njsonpointer==3.0.0\r\nlangchain==0.3.7\r\nlangchain-core==0.3.18\r\nlangchain-openai==0.2.8\r\nlangchain-text-splitters==0.3.2\r\nlangsmith==0.1.143\r\nmultiprocessing==6.1.0\r\nnumpy==1.26.4\r\nopenai==1.54.4\r\norjson==3.10.11\r\npackaging==24.2\r\npropcache==0.2.0\r\npydantic==2.9.2\r\npydantic_core==2.23.4\r\nPyYAML
}
{
  "_score": 0.92288905,
  "_type": "issue",
  "_repo": "langchain",
  "_issueNumber": "28021",
  "_title": "\u5728langgraph \u4e2d\u8fd0\u884c\u4f7f\u7528RAG\u7684\u793a\u4f8b\u4ee3\u7801\u51fa\u73b0\u7684\u9519\u8bef\u62a5\u9519",
  "_createdAt": "2024-11-11T13:54:06Z",
  "_closedAt": "2024-12-31T00:36:30Z",
  "_body": "### Checked other resources\n- [X] I added a very descriptive title to this issue.\n- [X] I searched the LangChain documentation with the integrated search.\n- [X] I used the GitHub search to find a similar question and didn't find it.\n- [X] I am sure that this is a bug in LangChain rather than my code.\n- [X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\n\n### Example Code\n\n```python\nfrom langgraph.graph import StateGraph\nfrom langgraph.prebuilt import create_react_agent\nfrom langchain_openai import ChatOpenAI\n\nllm = ChatOpenAI(model='gpt-4o')\nagent = create_react_agent(llm, state_schema=StateGraph)\ngraph = StateGraph(agent)\ngraph.add_node('start', lambda: {'messages': []})\ngraph.add_node('end', lambda: {'messages': []})\ngraph.set_entry_point('start')\ngraph.set_exit_point('end')\ngraph.compile()\n\nstate = graph.invoke({'messages': []})\nprint(state['messages'])\n```

### Error Message and Stack Trace (if applicable)\n\nTraceback (most recent call last):\n  File "C:\\Program Files\\JetBrains\\PyCharm 2023.3.2\\plugins\\python-ce\\helpers\\pydev\\pydevconsole.py", line 364, in run\n    coro = func()\n  File "<input>", line 1, in <module>\n  File "C:\\Program Files\\JetBrains\\PyCharm 2023.3.2\\plugins\\python-ce\\helpers\\pydev\\pydev_bundle\\pydev_umd.py", line 197, in runfile\n    pydev_imports.execfile(filename, global_vars, local_vars) # execute the script\n  File "C:\\Program Files\\JetBrains\\PyCharm 2023.3.2\\plugins\\python-ce\\helpers\\pydev\\pydevimps\\pydev_execfile.py", line 18, in execfile\n    exec(compile(contents+"\n\n", file, 'exec'), glob, loc)\n  File

```

```

"D:\\codes\\AIGC\\scientificProject\\llm.py", line 56, in <module>
solution = code_gen_chain_oai.invoke(
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain_core\\runnables\\base.py",
line 3024, in invoke
input = context.run(step.invoke, input, config)
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain_core\\output_parsers\\base.py", line 193, in invoke
return self._call_with_config(
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain_core\\runnables\\base.py", line 1927, in _call_with_config
context.run(
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain_core\\runnables\\config.py", line 396, in call_func_with_variable_args
return func(input, **kwargs)
# type: ignore[call-arg]
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain_core\\output_parsers\\base.py", line 194, in <lambda>
lambda inner_input: self.parse_result(
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain_core\\output_parsers\\openai_tools.py", line 298, in parse_result
raise e
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain_core\\output_parsers\\openai_tools.py", line 293, in parse_result
pydantic_objects.append(name_dict[res["type"]](**res["args"]))
File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\pydantic\\main.py", line 212, in __init__
validated_self = self.__pydantic_validator__.validate_python(data, self_instance=self)
pydantic_core._pydantic_core.ValidationError: 3 validation errors for code_prefix
Field required [type=missing, input_value={}, input_type=dict]
For further information visit https://errors.pydantic.dev/2.9/v/missing
Field required [type=missing, input_value={}, input_type=dict]
For further information visit https://errors.pydantic.dev/2.9/v/missing
Field required [type=missing, input_value={}, input_type=dict]
For further information visit https://errors.pydantic.dev/2.9/v/missing
### Description
u6211\u60f3\u8981\u5b66\u4e60\u8fd0\u884c\u5b98\u7f51\u4e2d\u7ed9\u51fa\u7684langgrap RAG\u76f8\u5173\u4ee3\u7801\u54f6\u51fa\u73b0\u4e86pydantic\u76f8\u5173\u7684\u5305\u7684\u62a5\u9519\u8bf7\u95ee\u6211\u8981\u5982\u4f55\u89e3\u51b3
### System Info
naiohappyeyeballs==2.4.3
naiohttp==3.10.10
naiosignal==1.3.1
annotated-types==0.7.0
anthropic==0.38.0
nanyio==4.6.2
post1
nasync-timeout==4.0.3
nattrs==24.2.0
nbeautifulsoup4==4.12.3
nbs4==0.0.2
ncertifi==2024.8.30
ncharset-normalizer==3.4.0
ncolorama==0.4.6
ndataclasses-json==0.6.7
ndefusedxml==0.7.1
ndistro==1.9.0
nexceptiongroup==1.2.2
nfilelock==3.16.1
nfrozenset==1.5.0
nfsspec==2024.10.0
ngreenlet==3.1.1
nh11==0.14.0
nhhttpcore==1.0.6
nhhttpx==0.27.2
nhhttpx-sse==0.4.0
nhuggingface-hub==0.26.2
nidna==3.10
njiter==0.7.0
njsonpatch==1.33
njsonpointer==3.0.0
nlangchain==0.3.7
nlangchain-anthropic==0.2.4
nlangchain-community==0.3.5
nlangchain-core==0.3.15
nlangchain-openai==0.2.5
nlangchain-text-splitters==0.3.2
nlanggraph==0.2.45
nlanggraph-checkpoint==2.0.2
nlanggraph-sdk==0.1.35
nlangsmith==0.1.139
nmarshmallow==3.23.1
nmsgpack==1.1.0
nmultidict==6.1.0
nmpy-extensions==1.0.0
nnumpy==1.26.4
nopenai==1.53.0
norjson==3.10.11
npackaging==24.1
npropcache==0.2.0
npydantic==2.9.2
npydantic-settings==2.6.1
npydantic_core==2.23.4
npython-dotenv==1.0.1
nPyYAML==6.0.2
nregex==2024.9.11
nrequests==2.32.3
nrequests-toolbelt==1.0.0
nsniffio==1.3.1
nsoupsieve==2.6
nSQLAlchemy

```

}

{

```
"_createdAt": "2024-11-21T22:43:53Z",
```

```
"_body": "### Checked other resources\n\n- [X] I added a very descriptiv
```

e integrated search.\n- [X] I used the GitHub search to find a similar quest

her than my code.\n- [X] The bug is not resolved by updating to the latest s

```

# Example Code\n\npython\n# Ensure your VertexAI credentials are con

```

```
el = ChatVertexAI(model="gemini-1.5-flash")\r\n\r\nmodel.invoke("Hello, w
```

```
python\r\n-----
```

```
-----\r\nNameError                                Traceback (most re
```

```
cent call last)\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/ in
```

```

...
    ternal/ generate schema.py:815. in GenerateSchema. resolve forward ref(self,

```

```
obj)\r\n      814 trv:\r\n--> 815      obj = typing extra.eval type backport(o
```

```

816 except NameError as e:\r\n\r\nFile /o

```

```
pt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:53
```

```
4. in eval type backport(value, globals, locals, type params)\r\n    533 t
```

```
rv:\r\n--> 534         return eval type backport(value, globalns, localns, type
```

```
534 except ValueError as e:\r\n\r\nFile /opt/conda/lib/python
```

```

3.10/site-packages/pydantic/_internal/_typing_extra.py:558: in eval_type_ba

```

```
ckport(value, globalns, localns, type_params)\r\n    557 try:\r\n    558
```

```

export(value, globals, locals, type_params)\r\n    557 try:\r\n    558
return eval(type(value, globals, locals, type_params))\r\n    559 except T

```

```

TypeError as e:\r\n\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/

```

```

TypeError: as_str() takes 1 positional argument (3 given)
internal/typing_extra.py:592: in eval_type(value globals locals type

```

```

_internat/_typing_extra.py:592, in _eval_type(value, globals, locals, type
params)\r\n      591 else:\r\n--> 592         return typing._eval_type( # type:

```

```

591         return typing.cast(_eval_type, # type: ignore)
592     value, globals, locals = \
593         _eval_type, globals, locals
594     )

```

```
File ~/opt/conda/lib/python3.10/site-packages/typing_extensions.py:327, in eval_type(t, globals, loca
```

```

ite /opt/conda/lib/python3.10/site-packages/typing.py:527, in _eval_type(t, globalns, localns, recursive_guard)\r\n    326 if isinstance(t, ForwardRef):\r\n    327

```

```

    this.recursive_guard()\r\n    326 if isinstance(t, ForwardRef):\r\n    327
    return t.evaluate(globals, locals, recursive_guard)\r\n    328 if isinstance

```

```

return t._evaluate(globals, locals, recursive_guard)\n
    if isinstance(t, (GenericAlias, GenericAlias, types.UnionType)):\n
        \r\n\r\nFile /opt/con

```

```
da/lib/python3.10/typing.py:699: in ForwardRef.evaluate(self, globalns, loc
```

```

dd/typing/python3.10/typing.py:699, in ForwardRef._evaluate(self, globals, loc
als, recursive_guard)\r\n      693 type = type_check()\r\n      694 eval(s

```

```

        atins, recursive_guard)\r\n        693 type_ = _type_check(\r\n        694         eval(s
self, forward_code, globals, locals)\r\n        695         )"Forward reference

```

```

etc.__forward_code__, glopaths, locpaths), \r\n      695      \ forward reference
s must evaluate to types \" \r\n      696      is argument=self forward is an

```

```

s must evaluate to types: \ , \r\n      696      is_argument=self: __forward_is_ar
argument \r\n      697      allow_special_forms=self forward is class \r\n

```

```

698 )\r\n--> 699 self.__forward_value__ = _eval_type(\r\n      700      type_,
globalns, localns, recursive_guard | {self.__forward_arg__}\r\n      701 )\r\n
702 self.__forward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/
typing.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n      3
28 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n-->
329     ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) fo
r a in t.__args__)\r\n      330     if ev_args == t.__args__:\r\n\r\nFile /op
t/conda/lib/python3.10/typing.py:329, in <genexpr>(.0)\r\n      328 if isinsta
nce(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_ar
gs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__ar
gs__)\r\n      330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/py
thon3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)
\r\n      326 if isinstance(t, ForwardRef):\r\n--> 327     return t._evaluate(
globalns, localns, recursive_guard)\r\n      328 if isinstance(t, (_GenericAli
as, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/conda/lib/python3.10/t
yping.py:699, in ForwardRef._evaluate(self, globalns, localns, recursive_gua
rd)\r\n      693 type_ = _type_check(\r\n      694     eval(self.__forward_code_
_, globalns, localns),\r\n      695     \r\n\r\n"Forward references must evaluate to
types.",\r\n      696     is_argument=self.__forward_is_argument__,\r\n      69
7     allow_special_forms=self.__forward_is_class__,\r\n      698 )\r\n--> 699
self.__forward_value__ = _eval_type(\r\n      700      type_, globalns, localn
s, recursive_guard | {self.__forward_arg__}\r\n      701 )\r\n      702 self.__f
orward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:32
9, in _eval_type(t, globalns, localns, recursive_guard)\r\n      328 if isinst
ance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_a
rgs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__a
rgs__)\r\n      330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/p
ython3.10/typing.py:329, in <genexpr>(.0)\r\n      328 if isinstance(t, (_Gene
ricAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_args = tuple(_e
val_type(a, globalns, localns, recursive_guard) for a in t.__args__)\r\n
330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typi
ng.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n      328 i
f isinstance(t, (_GenericAlias, Generi"
}
{
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    "_type": "issue",
    "_repo": "langchain",
    "_issueNumber": "28255",
    "_title": "Can't import ChatOpenAI: The `__modify_schema__` method is no
t supported in Pydantic v2. ",
    "_createdAt": "2024-11-21T10:40:40Z",
    "_closedAt": "2024-12-31T00:36:30Z",
    "_body": "### Checked other resources\n\n- [X] I added a very descriptiv
e title to this issue.\n- [X] I searched the LangChain documentation with th
e integrated search.\n- [X] I used the GitHub search to find a similar quest
ion and didn't find it.\n- [X] I am sure that this is a bug in LangChain rat
her than my code.\n- [X] The bug is not resolved by updating to the latest s
table version of LangChain (or the specific integration package).\n\n### Exa
mple Code\n\nThe following code straight from the docs fails already at the

```

```

import statement:\r\n```\r\nfrom typing import Optional\r\n\r\nfrom pydantic
import BaseModel, Field\r\n\r\nfrom langchain_openai import ChatOpenAI\r\n\r\n
\nllm = ChatOpenAI(model="gpt-4o-mini")\r\n\r\n\r\n# Pydantic\r\n\r\n\r\nclass Jok
e(BaseModel):\r\n    \r\n    "Joke to tell user.\r\n    "\r\n\r\n    setup: str =
Field(description="The setup of the joke")\r\n    punchline: str = Field(d
escription="The punchline to the joke")\r\n    rating: Optional[int] = Fie
ld(default=None, description="How funny the joke is, from 1 to 10")\r\n\r\n\r\n
\r\n\r\nstructured_llm = llm.with_structured_output(Joke)\r\n\r\n\r\nstructured_ll
m.invoke("Tell me a joke about cats")\r\n\r\n```\r\n\r\n### Error Message and Stac
k Trace (if applicable)\r\n\r\n\r\nC:\\Users\\Egor\\Dropbox\\Code\\langchain\\
\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: LangC
hainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydantic
v2 internally. The langchain_core.pydantic_v1 module was a compatibility shi
m for pydantic v1, and should no longer be used. Please update the code to i
mport from Pydantic directly.\r\n\r\n\r\nC:\\Users\\Egor\\Dropbox\\Code\\langcha
in\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: La
ngChainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydant
ic v2 internally. The langchain_core.pydantic_v1 module was a compatibility
shim for pydantic v1, and should no longer be used. Please update the code t
o import from Pydantic directly.\r\n\r\n\r\nFor example, replace imports like: `
from langchain_core.pydantic_v1 import BaseModel`\r\n\r\nwith: `from pydantic im
port BaseModel`\r\n\r\n\r\nor the v1 compatibility namespace if you are working in a
code base that has not been fully upgraded to pydantic 2 yet. \r\n\r\n\r\nfrom pydanti
c.v1 import BaseModel\r\n\r\n\r\nfrom langchain_openai.chat_models.azure impor
t AzureChatOpenAI\r\n\r\n\r\nC:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\sit
e-packages\\pydantic\\_internal\\_config.py:345: UserWarning: Valid config k
eys have changed in V2:\r\n\r\n* 'allow_population_by_field_name' has been renam
ed to 'populate_by_name'\r\n\r\nwarnings.warn(message, UserWarning)\r\n\r\nTraceba
ck (most recent call last):\r\n\r\n  File "<frozen importlib._bootstrap>", lin
e 1176, in _find_and_load\r\n\r\n  File "<frozen importlib._bootstrap>", line
1147, in _find_and_load_unlocked\r\n\r\n  File "<frozen importlib._bootstrap>
", line 690, in _load_unlocked\r\n\r\n  File "<frozen importlib._bootstrap_ext
ernal>", line 940, in exec_module\r\n\r\n  File "<frozen importlib._bootstrap>
", line 241, in _call_with_frames_removed\r\n\r\n  File "C:\\Users\\Egor\\Drop
box\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\__init__.py
", line 1, in <module>\r\n\r\n    from langchain_openai.chat_models import Azur
eChatOpenAI, ChatOpenAI\r\n\r\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchai
n\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py", lin
e 1, in <module>\r\n\r\n    from langchain_openai.chat_models.azure import Azure
ChatOpenAI\r\n\r\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\part
ners\\openai\\langchain_openai\\chat_models\\azure.py", line 41, in <module>\r\n\r\n
    from langchain_openai.chat_models.base import BaseChatOpenAI\r\n\r\n  F
ile "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\lan
gchain_openai\\chat_models\\base.py", line 353, in <module>\r\n\r\n    class Ba
seChatOpenAI(BaseChatModel):\r\n\r\n  File "C:\\Users\\Egor\\.conda\\envs\\motl
eycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py
", line 226, in __new__\r\n\r\n    complete_model_class(\r\n\r\n  File "C:\\Users\\
Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal
\\_model_construction.py", line 658, in complete_model_class\r\n\r\n    schema
= cls.__get_pydantic_core_schema__(cls, handler)\r\n\r\n    ~~~~~~

```

```
s\\motleycrew3.11\\Lib\\site-packages\\pydantic\\main.py\", line 697, in __get_pydantic_core_schema__\r\n    return handler(source)\r\n^^^^^^\r\nFile \"C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_schema_generation_shared.py\", line 84, in __call__\r\n    schema = self._handler(source_type)\r\n^^^^^^\r\nFile \"C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py\", line 612, in generate_schema\r\n    schema = self._generate_schema_inner(obj)\r\n^^^^^^\r\nFile \"C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py\", line 881, in _generate_schema_inner\r\n    return self._model_schema(obj)\r\n^^^^^^\r\nFile \"C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\\"}\r\n{\r\n    \"_score\": 0.9279109,\r\n    \"_type\": \"issue\",\r\n    \"_repo\": \"langchain\",\r\n    \"_issueNumber\": \"27960\",\r\n    \"_title\": \"dict[str, pydantic_model] annotation not working with structured output\",\r\n    \"_createdAt\": \"2024-11-07T13:10:32Z\",\r\n    \"_closedAt\": \"2024-12-31T00:36:30Z\",\r\n    \"_body\": \"### Checked other resources\\n\\n- [X] I added a very descriptive title to this issue.\\n- [X] I searched the LangChain documentation with the integrated search.\\n- [X] I used the GitHub search to find a similar question and didn't find it.\\n- [X] I am sure that this is a bug in LangChain rather than my code.\\n- [X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\\n\\n### Example Code\\n\\n```python\r\nfrom __future__ import annotations\r\n\r\nfrom typing import Optional\r\nfrom unittest import TestCase\r\n\r\nfrom dotenv import load_dotenv\r\nfrom langchain_openai import ChatOpenAI\r\nfrom pydantic import Field, BaseModel\r\n\r\nload_dotenv()\r\n\r\nclass CustomTestExtractorPropertiesCreation(TestCase):\r\n    def test_with_structured_output_dict(self):\r\n        class Joke(BaseModel):\r\n            \"\"\"Joke to tell user.\"\"\"\r\n            setup: str = Field(description=\"The setup of the joke\")\r\n            punchline: str = Field(description=\"The punchline to the joke\")\r\n            rating: Optional[int] = Field(default=None, description=\"How funny the joke is, from 1 to 10\")\r\n\r\n        class MultipleJokes(BaseModel):\r\n            name_joke_pairs: dict[str, Joke] = Field(description=\"Dictionary of joke_name and joke pairs\")\r\n\r\n        ChatOpenAI(name=\"gpt-4o-mini\").with_structured_output(MultipleJokes).invoke(\"Generate a number of name-joke pairs\")\r\n\r\n```\r\n\r\n### Error Message and Stack Trace (if applicable)\r\n\r\nError\r\nTraceback (most recent call last):\r\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/tests/integration/conversations/custom_test_extractor_properties_creation.py\", line 25, in test_with_structured_output_dict\r\n    MultipleJokes().invoke(\"Generate a number of name-joke pairs\")\r\n  File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/
```



```

site-packages/langchain_core/runnables/base.py", line 3024, in invoke\r\n
input = context.run(step.invoke, input, config)\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/base.py", line 193, in invoke\r\n
    return self._call_with_config(\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/base.py", line 1927, in _call_with_config\r\n
    context.run(\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/config.py", line 396, in call_func_with_variable_args\r\n
    return func(input, **kwargs) # type: ignore[call-arg]\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/base.py", line 194, in <lambda>\r\n
    lambda inner_input: self.parse_result(\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/openai_tools.py", line 298, in parse_result\r\n
    raise e\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/openai_tools.py", line 293, in parse_result\r\n
    pydantic_objects.append(name_dict[res["type"]](**res["args"]))\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/pydantic/main.py", line 212, in __init__\r\n
    validated_self = self._pydantic_validator.validate_python(data, self_instance=self)\r\n
pydantic_core._pydantic_core.ValidationError: 1 validation error for MultipleJokes\r\n
name_joke_pairs\r\n
Field required [type=missing, input_value={}, input_type=dict]\r\n
For further information visit https://errors.pydantic.dev/2.9/v/missing\n\n### Description\n\nI am trying to create MultipleJokes Pydantic Model (example). \r\n\n**Expected result:**\r\nMultipleJokes object is created no error is returned\r\n\n**Actual result:**\r\nMissing field exception is raised on Pydantic validation\n\n### System Info\n\nSystem Information\r\n-----\r\n
n> OS: Linux\r\n
n> OS Version: #48-Ubuntu SMP PREEMPT_DYNAMIC Fri Sep 27 14:04:52 UTC 2024\r\n
n> Python Version: 3.10.15 (main, Sep 7 2024, 18:35:38) [GCC 13.2.0]\r\n
n\r\n
nPackage Information\r\n-----\r\n
n> langchain_core: 0.3.15\r\n
n> langchain: 0.3.7\r\n
n> langsmith: 0.1.134\r\n
n> langchain_anthropic: 0.2.3\r\n
n> langchain_google_genai: 2.0.1\r\n
n> langchain_groq: 0.2.0\r\n
n> langchain_nvidia: Installed. No version info available.\r\n
n> langchain_nvidia_ai_endpoints: 0.3.0\r\n
n> langchain_openai: 0.2.2\r\n
n> langchain_text_splitters: 0.3.0\r\n
n> langgraph: 0.2.38\r\n
n\r\n
nOptional packages not installed\r\n
n-----\r\n
n> langserve\r\n
n\r\n
nOther Dependencies\r\n
n-----\r\n
n> aiohttp: 3.10.10\r\n
n> anthropic: 0.36.0\r\n
n> async-timeout: 4.0.3\r\n
n> defusedxml: 0.7.1\r\n
n> google-generativeai: 0.8.3\r\n
n> groq: 0.11.0\r\n
n> httpx: 0.26.0\r\n
n> jsonpatch: 1.33\r\n
n> langgraph-checkpoint: 2.0.1\r\n
n> langgraph-sdk: 0.1.33\r\n
n> numpy: 1.26.4\r\n
n> openai: 1.51.2\r\n
n> orjson: 3.10.7\r\n
n> packaging: 24.1\r\n
n> pillow: 10.4.0\r\n
n> pydantic: 2.9.2\r\n
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{
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    "_type": "issue",
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    "_issueNumber": "28106",

```

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[illegible]

file:///Users/purneshsv/Desktop/HW5\_ShiavrudrappaVidhyadhara\_Purn...er\_OpenAI\_Purnesh/Pull\_GitHub\_Issues/Pull\_Analytics\_Purnesh.html Page 372 of 397

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  "_createdAt": "2024-11-21T22:43:53Z",
  "_closedAt": "2024-12-31T00:36:30Z",
  "_body": "### Checked other resources\n\n[X] I added a very descriptive title to this issue.\n[X] I searched the LangChain documentation with the integrated search.\n[X] I used the GitHub search to find a similar question and didn't find it.\n[X] I am sure that this is a bug in LangChain rather than my code.\n[X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\n\n### Example Code\n\npython\n# Ensure your VertexAI credentials are configured\nfrom langchain_google_vertexai import ChatVertexAI\nmodel = ChatVertexAI(model=\"gemini-1.5-flash\")\nmodel.invoke(\"Hello, world!\")\n\n### Error Message and Stack Trace (if applicable)\n\npython\n-----\nNameError                                Traceback (most recent call last)\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_generate_schema.py:815, in GenerateSchema._resolve_forward_ref(self, obj)\n    814 try:\n--> 815     obj = _typing_extra.eval_type_backport(obj, *self._types_namespace)\n    816 except NameError as e:\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:534, in eval_type_backport(value, globalns, localns, type_params)\n    533 t\nry:\n--> 534     return _eval_type_backport(value, globalns, localns, type_params)\n    535 except TypeError as e:\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:558, in _eval_type_backport(value, globalns, localns, type_params)\n    557 try:\n--> 558     return _eval_type(value, globalns, localns, type_params)\n    559 except T\nypeError as e:\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:592, in _eval_type(value, globalns, localns, type_params)\n    591 else:\n--> 592     return typing._eval_type( # type: ignore\n    593         value, globalns, localns\n    594     )\nFile /opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)\n    326 if isinstance(t, ForwardRef):\n--> 327
```

```

return t._evaluate(globalns, localns, recursive_guard)\r\n    328 if isinsta
nce(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/con
da/lib/python3.10/typing.py:699, in ForwardRef._evaluate(self, globalns, loc
als, recursive_guard)\r\n    693 type_ = _type_check(\r\n    694     eval(s
elf.__forward_code__, globalns, localns),\r\n    695     \"Forward reference
s must evaluate to types.\",\r\n    696     is_argument=self.__forward_is_ar
gument__,\r\n    697     allow_special_forms=self.__forward_is_class__,\r\n
698 )\r\n--> 699 self.__forward_value__ = _eval_type(\r\n    700     type_,
globalns, localns, recursive_guard | {self.__forward_arg__}\r\n    701 )\r\n
702 self.__forward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/
typing.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n    3
28 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n-->
329     ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) fo
r a in t.__args__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /op
t/conda/lib/python3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinsta
nce(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_ar
gs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__ar
gs__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/py
thon3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)
\r\n    326 if isinstance(t, ForwardRef):\r\n--> 327     return t._evaluate(
globalns, localns, recursive_guard)\r\n    328 if isinstance(t, (_GenericAli
as, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/conda/lib/python3.10/t
yping.py:699, in ForwardRef._evaluate(self, globalns, localns, recursive_gua
rd)\r\n    693 type_ = _type_check(\r\n    694     eval(self.__forward_code_
_, globalns, localns),\r\n    695     \"Forward references must evaluate to
types.\",\r\n    696     is_argument=self.__forward_is_argument__,\r\n    69
7     allow_special_forms=self.__forward_is_class__,\r\n    698 )\r\n--> 699
self.__forward_value__ = _eval_type(\r\n    700     type_, globalns, localn
s, recursive_guard | {self.__forward_arg__}\r\n    701 )\r\n    702 self.__f
orward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:32
9, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 if isinst
ance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_a
rgs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__a
rgs__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/p
ython3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinstance(t, (_Gene
ricAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_args = tuple(_e
val_type(a, globalns, localns, recursive_guard) for a in t.__args__)\r\n
330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typi
ng.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 i
f isinstance(t, (_GenericAlias, Generi"
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```

```

"_body": "### Checked other resources\n\n- [X] I added a very descriptive title to this issue.\n- [X] I searched the LangChain documentation with the integrated search.\n- [X] I used the GitHub search to find a similar question and didn't find it.\n- [X] I am sure that this is a bug in LangChain rather than my code.\n- [X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\n\n### Example Code\n\nThe following code straight from the docs fails already at the import statement:\n\nfrom typing import Optional\nfrom pydantic import BaseModel, Field\nfrom langchain_openai import ChatOpenAI\n\nllm = ChatOpenAI(model=\"gpt-4o-mini\")\n\n# Pydantic\nclass Joke(BaseModel):\n    \"\"\"Joke to tell user.\"\"\"\n    setup: str = Field(description=\"The setup of the joke\")\n    punchline: str = Field(description=\"The punchline to the joke\")\n    rating: Optional[int] = Field(default=None, description=\"How funny the joke is, from 1 to 10\")\n\nstructured_llm = llm.with_structured_output(Joke)\nstructured_llm.invoke(\"Tell me a joke about cats\")\n\n### Error Message and Stack Trace (if applicable)\n\nC:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: LangChainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydantic v2 internally. The langchain_core.pydantic_v1 module was a compatibility shim for pydantic v1, and should no longer be used. Please update the code to import from Pydantic directly.\n\nC:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: LangChainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydantic v2 internally. The langchain_core.pydantic_v1 module was a compatibility shim for pydantic v1, and should no longer be used. Please update the code to import from Pydantic directly.\n\nFor example, replace imports like: `from langchain_core.pydantic_v1 import BaseModel` with: `from pydantic import BaseModel` nor the v1 compatibility namespace if you are working in a code base that has not been fully upgraded to pydantic 2 yet.\n\nfrom pydantic.v1 import BaseModel\n\nfrom langchain_openai.chat_models.azure import AzureChatOpenAI\n\nC:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_config.py:345: UserWarning: Valid config keys have changed in V2: '* 'allow_population_by_field_name' has been renamed to 'populate_by_name'\n\nwarnings.warn(message, UserWarning)\n\nTraceback (most recent call last):\n  File "<frozen importlib._bootstrap>", line 1176, in _find_and_load\n  File "<frozen importlib._bootstrap>", line 1147, in _find_and_load_unlocked\n  File "<frozen importlib._bootstrap>", line 690, in _load_unlocked\n  File "<frozen importlib._bootstrap_external>", line 940, in exec_module\n  File "<frozen importlib._bootstrap>", line 241, in _call_with_frames_removed\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\__init__.py", line 1, in <module>\n    from langchain_openai.chat_models import AzureChatOpenAI, ChatOpenAI\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py", line 1, in <module>\n    from langchain_openai.chat_models.azure import AzureChatOpenAI\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\azure.py", line 41, in <module>\n    from langchain_openai.chat_models.base import BaseChatOpenAI\n  File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\lan

```

```

gchain_openai\\chat_models\\base.py", line 353, in <module>
    class BaseChatOpenAI(BaseChatModel):
File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py", line 226, in __new__
    complete_model_class(
File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py", line 658, in complete_model_class
    schema = cls.__get_pydantic_core_schema__(cls, handler)
~~~~~
File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\main.py", line 697, in __get_pydantic_core_schema__
    return handler(source)
~~~~~
File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_schema_generation_shared.py", line 84, in __call__
    schema = self._handler(source_type)
~~~~~
File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py", line 612, in generate_schema
    schema = self._generate_schema_inner(obj)
~~~~~
File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py", line 881, in _generate_schema_inner
    return self._model_schema(obj)
~~~~~
File "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\
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    "_body": "### Checked other resources\n\n- [X] I added a very descriptive title to this issue.\n- [X] I searched the LangChain documentation with the integrated search.\n- [X] I used the GitHub search to find a similar question and didn't find it.\n- [X] I am sure that this is a bug in LangChain rather than my code.\n- [X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\n\n### Example Code\n\n```\npython\nfrom __future__ import annotations\nfrom typing import Optional\nfrom unittest import TestCase\nfrom dotenv import load_dotenv\nfrom langchain_openai import ChatOpenAI\nfrom pydantic import Field, BaseModel\n\nload_dotenv()\n\nclass CustomTestExtractorPropertiesCreation(TestCase):\n    def test_with_structured_output_dict(self):\n        class Joke(BaseModel):\n            \"\"\"Joke to tell user.\"\"\"\n            setup: str = Field(description=\"The setup of the joke\")\n            punchline: str = Field(description=\"The punchline to the joke\")\n            rating: Optional[int] = Field(default=None, description=\"How funny the joke is, from 1 to 10\")\n\n        class MultipleJokes(BaseModel):\n            name_joke_pairs: dict[str, Joke] = Field(description=\"Dictionary of joke_name and joke pairs\")\n\n        ChatOpenAI(name=\"gpt-4o-mini\").with_structured_output(

```



```

r\n
MultipleJokes).invoke(\"Generate a number of name-joke pairs
\")\r\n` ``\n\n### Error Message and Stack Trace (if applicable)\n\nError\r\n
Traceback (most recent call last):\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/tests/integration/conversations/custom_test_extractor_properties_creation.py\", line 25, in test_with_structured_output_dict\r\n
MultipleJokes).invoke(\"Generate a number of name-joke pairs\")\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/base.py\", line 3024, in invoke\r\n
input = context.run(step.invoke, input, config)\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/base.py\", line 193, in invoke\r\n
return self._call_with_config(\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/base.py\", line 1927, in _call_with_config\r\n
context.run(\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/config.py\", line 396, in call_func_with_variable_args\r\n
return func(input, **kwargs) # type: ignore[call-arg]\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/base.py\", line 194, in <lambda>\r\n
lambda inner_input: self.parse_result(\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/openai_tools.py\", line 298, in parse_result\r\n
raise e\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/openai_tools.py\", line 293, in parse_result\r\n
pydantic_objects.append(name_dict[res[\"type\"]](**res[\"args\"])))\r\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/pydantic/main.py\", line 212, in __init__\r\n
validated_self = self.__pydantic_validator__.validate_python(data, self_instance=self)\r\n
pydantic_core._pydantic_core.ValidationError: 1 validation error for MultipleJokes\r\n
name_joke_pairs\r\n
Field required [type=missing, input_value={}, input_type=dict]\r\n
For further information visit https://errors.pydantic.dev/2.9/v/missing\n\n### Description\n\nI am trying to create MultipleJokes Pydantic Model (example). \r\n
**Expected result:**\r\n
MultipleJokes object is created no error is returned\r\n
**Actual result:**\r\n
Missing field exception is raised on Pydantic validation\n\n### System Info\n\nSystem Information\r\n
-----\r\n
> OS: Linux\r\n
> OS Version: #48-Ubuntu SMP PREEMPT_DYNAMIC Fri Sep 27 14:04:52 UTC 2024\r\n
> Python Version: 3.10.15 (main, Sep 7 2024, 18:35:38) [GCC 13.2.0]\r\n
\r\n
Package Information\r\n
-----\r\n
> langchain_core: 0.3.15\r\n
> langchain: 0.3.7\r\n
> langsmith: 0.1.134\r\n
> langchain_anthropic: 0.2.3\r\n
> langchain_google_genai: 2.0.1\r\n
> langchain_groq: 0.2.0\r\n
> langchain_nvidia: Installed. No version info available.\r\n
> langchain_nvidia_ai_endpoints: 0.3.0\r\n
> langchain_openai: 0.2.2\r\n
> langchain_text_splitters: 0.3.0\r\n
> langgraph: 0.2.38\r\n
\r\n
Optional packages not installed\r\n
-----\r\n
> langserve\r\n
\r\n
Other Dependencies\r\n
-----\r\n
> aiohttp: 3.10.10\r\n
> anthropic: 0.36.0\r\n
> async-timeout: 4.0.3\r\n
> defusedxml: 0.7.1\r\n
> google-generativeai: 0.8.3\r\n
> groq: 0.11.0\r\n
> httpx: 0.26.0\r\n
> jsonpatch: 1.33\r\n
> langgraph-checkpoint: 2.0.1\r\n
> langgraph-sdk: 0.1.33\r\n
> numpy: 1.26.4\r\n
> openai: 1.51.2\r\n
> orjson: 3.10.7\r\n
> packaging: 24.1\r\n
> pillow: 10.4.0\r\n

```

```

pydantic: 2.9.2\r"
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{
  "_score": 0.92669773,
  "_type": "issue",
  "_repo": "langchain",
  "_issueNumber": "28106",
  "_title": "LangChain incorrectly applies strict (OpenAI's Structured Output) in schema generation from Pydantic model with union, causing OpenAI validation errors",
  "_createdAt": "2024-11-14T13:13:41Z",
  "_closedAt": "2024-12-31T00:36:30Z",
  "_body": "### Checked other resources\r\n\r\n- [X] I added a very descriptive title to this issue.\r\n\r\n- [X] I searched the LangChain documentation with the integrated search.\r\n\r\n- [X] I used the GitHub search to find a similar question and didn't find it.\r\n\r\n- [X] I am sure that this is a bug in LangChain rather than my code.\r\n\r\n- [X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\r\n\r\n\r\n### Example Code\r\n\r\n\r\n```\r\npython\r\nimport getpass\r\nimport os\r\nfrom typing import Union\r\nfrom langchain_openai import ChatOpenAI\r\nfrom openai import OpenAI\r\nfrom pydantic import BaseModel, Field\r\n\r\nclass Cooked(BaseModel):\r\n    cooked_recipe_name: str = Field(\r\n        description='Recipe name.'\r\n    )\r\n\r\nclass Baked(BaseModel):\r\n    baked_recipe_name: str = Field(\r\n        description='Recipe name.'\r\n    )\r\n\r\nclass Recipes(BaseModel):\r\n    recipes: list[Union[Cooked, Baked]] = Field(\r\n        description='A list of recipes or tables representing the data sources.'\r\n    )\r\n\r\nif \"OPENAI_API_KEY\" not in os.environ:\r\n    os.environ[\"OPENAI_API_KEY\"] = getpass.getpass(\"Enter your OpenAI API key: \")\r\n\r\nclient = OpenAI()\r\nmodel = \"gpt-4o-2024-08-06\"\r\nrecipe_names = \"Garlic Butter Lobster Tail, Pumpkin Spice Muffins, Spicy Korean Beef Bulgogi, Raspberry Almond Scones\"\r\n\r\ncompletion = client.beta.chat.completions.parse(\r\n    model=model,\r\n    messages=[\r\n        {\r\n            \"role\": \"user\", \r\n            \"content\": recipe_names,\r\n        },\r\n    ],\r\n    response_format=Recipes,\r\n)\r\n\r\nprint(\"OpenAI:\", completion.choices[0].message.parsed)\r\n\r\nllm = ChatOpenAI(model=model)\r\nllm = llm.with_structured_output(Recipes, strict=True)\r\n\r\nresponse = llm.invoke(recipe_names)\r\n\r\nprint(\"Langchain:\", response)\r\n\r\n```\r\n\r\n### Error Message and Stack Trace (if applicable)\r\n\r\n\r\nopenai.BadRequestError: Error code: 400 - {'error': {'message': 'Invalid schema for function 'Recipes': In context=('properties', 'recipes', 'items', 'anyOf', '0'), 'additionalProperties' is required to be supplied and to be false.', 'type': 'invalid_request_error', 'param': 'tools[0].function.parameters', 'code': 'invalid_function_parameters'}}\r\n\r\n\r\n### Description\r\n\r\n\r\nThe problem is that LangChain incorrectly applies the strict keyword to the schema generated from the Pydantic model for the specific case in the example code above. The culprit here is the union. The same Pydantic class works when I feed it directly to OpenAI. When I injected 'additionalProperties': False into the schema for the `Baked` and `Cooked` classes, the issue disappeared. \r\n\r\nI encountered the same problem when I had a Pydantic tool schema with a union similar to the one above. \r\n\r\n\r\nOpenAI only threw error when `cooked_recipe_name` and `baked_recipe_name` were `recipe_name`, s

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```

o I guess that is something to be careful about.\r\n\r\nOpenAI schema before
calling API:\r\n```\r\n{'$defs': {'Baked': {'properties': {'baked_recipe_name': {'description': 'Recipe name.', 'title': 'Baked Recipe Name', 'type': 'string'}}, 'required': ['baked_recipe_name'], 'title': 'Baked', 'type': 'object', 'additionalProperties': False}, 'Cooked': {'properties': {'cooked_recipe_name': {'description': 'Recipe name.', 'title': 'Cooked Recipe Name', 'type': 'string'}}, 'required': ['cooked_recipe_name'], 'title': 'Cooked', 'type': 'object', 'additionalProperties': False}}, 'properties': {'recipes': {'description': 'A list of recipes or tables representing the data sources.', 'items': {'anyOf': [{'$ref': '#/$defs/Cooked'}, {'$ref': '#/$defs/Baked'}]}, 'title': 'Recipes', 'type': 'array'}}, 'required': ['recipes'], 'title': 'Recipes', 'type': 'object', 'additionalProperties': False}\r\n```\r\n\r\nLangChain schema before calling API:\r\n```\r\n{'name': 'Recipes', 'description': '', 'parameters': {'properties': {'recipes': {'description': 'A list of recipes or tables representing the data sources.', 'items': {'anyOf': [{'properties': {'cooked_recipe_name': {'description': 'Recipe name.', 'title': 'Cooked Recipe Name', 'type': 'string'}}, 'required': ['cooked_recipe_name'], 'title': 'Cooked', 'type': 'object'}, {'properties': {'baked_recipe_name': {'description': 'Recipe name.', 'title': 'Baked Recipe Name', 'type': 'string'}}, 'required': ['baked_recipe_name'], 'title': 'Baked', 'type': 'object'}]}, 'type': 'array'}}, 'required': ['recipes'], 'type': 'object', 'additionalProperties': False}, 'strict': True}\r\n```\r\n\r\n### System Info\r\n\r\nnaiohappyeyeballs==2.4.3\r\nnaiohttp==3.11.0\r\nnaiosignal==1.3.1\r\nannotated-types==0.7.0\r\nanyio==4.6.2.post1\r\nasynctimeout==4.0.3\r\nattrs==24.2.0\r\ncertifi==2024.8.30\r\ncharset-normalizer==3.4.0\r\nndistro==1.9.0\r\nexceptiongroup==1.2.2\r\nfrozenlist==1.5.0\r\ngreenlet==3.1.1\r\nh11==0.14.0\r\nhttpcore==1.0.6\r\nhttpx==0.27.2\r\nidna==3.10\r\njiter==0.7.1\r\njsonpatch==1.33\r\njsonpointer==3.0.0\r\nlangchain==0.3.7\r\nlangchain-core==0.3.18\r\nlangchain-openai==0.2.8\r\nlangchain-text-splitters==0.3.2\r\nlangsmith==0.1.143\r\nmultidict==6.1.0\r\nnumpy==1.26.4\r\nopenai==1.54.4\r\norjson==3.10.11\r\npackaging==24.2\r\npropcache==0.2.0\r\npydantic==2.9.2\r\npydantic_core==2.23.4\r\nPyYA"
}
{

```

```

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    "_createdAt": "2024-11-11T13:54:06Z",
    "_closedAt": "2024-12-31T00:36:30Z",
    "_body": "### Checked other resources\r\n\r\n- [X] I added a very descriptive title to this issue.\r\n- [X] I searched the LangChain documentation with the integrated search.\r\n- [X] I used the GitHub search to find a similar question and didn't find it.\r\n- [X] I am sure that this is a bug in LangChain rather than my code.\r\n- [X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\r\n\r\n### Example Code\r\n\r\n\u6211\u8cfd\u884c\u5b98\u65b7\u6587\u6863\u4e2d\u7684\u793a\u4f8b\u4ee3\u7801\u51fa\u73b0\u7684\u539f\u56e0\u5206\u6790"

```

```

uff1ahttps://langchain-ai.github.io/langgraph/tutorials/code_assistant/langg
raph_code_assistant/#code-solution\r\n\u73af\u5883\u4fe1\u606f\uff1a\r\nlang
chain      0.3.7\r\nlanggraph      0.2.45\r\npydantic
2.9.2\r\npydantic_core      2.23.4\r\npydantic-settings      2.6.1\r
\r\n\r\n\r\n### Error Message and Stack Trace (if applicable)\r\n\r\nTraceback (mo
st recent call last):\r\n  File "C:\\Program Files\\JetBrains\\PyCharm 202
3.3.2\\plugins\\python-ce\\helpers\\pydev\\pydevconsole.py", line 364, in r
uncode\r\n    coro = func()\r\n  File "<input>", line 1, in <module>\r\n
  File "C:\\Program Files\\JetBrains\\PyCharm 2023.3.2\\plugins\\python-ce\\h
elpers\\pydev\\pydev_bundle\\pydev_umd.py", line 197, in runfile\r\n    py
dev_imports.execfile(filename, global_vars, local_vars) # execute the scrip
t\r\n  File "C:\\Program Files\\JetBrains\\PyCharm 2023.3.2\\plugins\\pytho
n-ce\\helpers\\pydev\\pydevimps\\pydev_execfile.py", line 18, in execfil
e\r\n    exec(compile(contents+"\n\n", file, 'exec'), glob, loc)\r\n  File
"D:\\codes\\AIGC\\scientificProject\\llm.py", line 56, in <module>\r\n
    solution = code_gen_chain_oai.invoke(\r\n  File "C:\\Users\\anaconda3\\envs
\\langchain_env2\\lib\\site-packages\\langchain_core\\runnables\\base.py",
line 3024, in invoke\r\n    input = context.run(step.invoke, input, config)\r
\r\n  File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\
langchain_core\\output_parsers\\base.py", line 193, in invoke\r\n    return
self._call_with_config(\r\n  File "C:\\Users\\anaconda3\\envs\\langchain_en
v2\\lib\\site-packages\\langchain_core\\runnables\\base.py", line 1927, in
_call_with_config\r\n    context.run(\r\n  File "C:\\Users\\anaconda3\\envs
\\langchain_env2\\lib\\site-packages\\langchain_core\\runnables\\config.py
", line 396, in call_func_with_variable_args\r\n    return func(input, **kw
args) # type: ignore[call-arg]\r\n  File "C:\\Users\\anaconda3\\envs\\lang
chain_env2\\lib\\site-packages\\langchain_core\\output_parsers\\base.py", l
ine 194, in <lambda>\r\n    lambda inner_input: self.parse_result(\r\n  File
"C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-packages\\langchain
_core\\output_parsers\\openai_tools.py", line 298, in parse_result\r\n    ra
ise e\r\n  File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-pack
ages\\langchain_core\\output_parsers\\openai_tools.py", line 293, in parse_
result\r\n    pydantic_objects.append(name_dict[res["type"]])(**res["args
"])\r\n  File "C:\\Users\\anaconda3\\envs\\langchain_env2\\lib\\site-pack
ages\\pydantic\\main.py", line 212, in __init__\r\n    validated_self = sel
f.__pydantic_validator__.validate_python(data, self_instance=self)\r\npydant
ic_core.pydantic_core.ValidationError: 3 validation errors for code\r\npref
ix\r\n  Field required [type=missing, input_value={}, input_type=dict]\r\n
  For further information visit https://errors.pydantic.dev/2.9/v/missing\r\ni
mports\r\n  Field required [type=missing, input_value={}, input_type=dict]\r
\r\n  For further information visit https://errors.pydantic.dev/2.9/v/missin
g\r\n\r\n  Field required [type=missing, input_value={}, input_type=dic
t]\r\n  For further information visit https://errors.pydantic.dev/2.9/v/mi
ssing\r\n\r\n### Description\r\n\r\n\u6211\u60f3\u8981\u5b66\u4e60\u8fd0\u884c\u5b98
\u7f51\u4e2d\u7ed9\u51fa\u7684langgrap RAG\u76f8\u5173\u4ee3\u7801\u517d\u4
f46\u51fa\u73b0\u4e86pydantic\u76f8\u5173\u7684\u5305\u7684\u62a5\u9519\u8bf
7\u95ee\u6211\u8981\u5982\u4f55\u89e3\u51b3\r\n\r\n\r\n### System Info\r\n\r\nnaiohap
pyeyeballs==2.4.3\r\nnaiohttp==3.10.10\r\nnaiosignal==1.3.1\r\nannotated-types
==0.7.0\r\nanthropic==0.38.0\r\nanyio==4.6.2.post1\r\nasync-timeout==4.0.3\r
\r\nattrs==24.2.0\r\nbeautifulsoup4==4.12.3\r\nbs4==0.0.2\r\ncertifi==2024.8.3

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0\r\ncharset-normalizer==3.4.0\r\ncolorama==0.4.6\r\ndataclasses-json==0.6.7
\r\ndefusedxml==0.7.1\r\ndistro==1.9.0\r\nexceptiongroup==1.2.2\r\nfilelock=
=3.16.1\r\nfrozenlist==1.5.0\r\nfsspec==2024.10.0\r\ngreenlet==3.1.1\r\nh11=
=0.14.0\r\nhttpcore==1.0.6\r\nhttpx==0.27.2\r\nhttpx-sse==0.4.0\r\nhuggingfa
ce-hub==0.26.2\r\nidna==3.10\r\njiter==0.7.0\r\njsonpatch==1.33\r\njsonpoint
er==3.0.0\r\nlangchain==0.3.7\r\nlangchain-anthropic==0.2.4\r\nlangchain-com
munity==0.3.5\r\nlangchain-core==0.3.15\r\nlangchain-openai==0.2.5\r\nlangch
ain-text-splitters==0.3.2\r\nlanggraph==0.2.45\r\nlanggraph-checkpoint==2.0.
2\r\nlanggraph-sdk==0.1.35\r\nlangsmith==0.1.139\r\nmarshmallow==3.23.1\r\nm
sgpack==1.1.0\r\nmultidict==6.1.0\r\nmypy-extensions==1.0.0\r\nnumpy==1.26.4
\r\nopenai==1.53.0\r\norjson==3.10.11\r\npackaging==24.1\r\npropcache==0.2.0
\r\npydantic==2.9.2\r\npydantic-settings==2.6.1\r\npydantic_core==2.23.4\r\n
python-dotenv==1.0.1\r\nPyYAML==6.0.2\r\nregex==2024.9.11\r\nrequests==2.32.
3\r\nrequests-toolbelt==1.0.0\r\nsniffio==1.3.1\r\nsoupsieve==2.6\r\nSQLAlch
emy==2.0.35\r\ntenacity==9.0.0\r\ntiktoken==0.8.0\r\ntokenizers==0.20.1\r\n
tqdm==4.66.6\r\ntyping-inspect==0.9.0\r\ntyping_extensions==4.12.2\r\nurllib3
==2.2.3\r\nyaml==1.17.1\r\n"
}

```

Top 5 most similar issues for milvus-io/pymilvus:

```

{
  "_score": 1.0,
  "_type": "issue",
  "_repo": "langchain",
  "_issueNumber": "28271",
  "_title": "PydanticUndefinedAnnotation: name 'SafetySetting' is not defi
ned using ChatVertexAI",
  "_createdAt": "2024-11-21T22:43:53Z",
  "_closedAt": "2024-12-31T00:36:30Z",
  "_body": "### Checked other resources\n\n- [X] I added a very descriptiv
e title to this issue.\n- [X] I searched the LangChain documentation with th
e integrated search.\n- [X] I used the GitHub search to find a similar quest
ion and didn't find it.\n- [X] I am sure that this is a bug in LangChain rat
her than my code.\n- [X] The bug is not resolved by updating to the latest s
table version of LangChain (or the specific integration package).\n\n### Exa
mple Code\n\n\r\n```\npython\r\n\r\n# Ensure your VertexAI credentials are con
figured\r\n\r\nfrom langchain_google_vertexai import ChatVertexAI\r\n\r\nmod
el = ChatVertexAI(model="gemini-1.5-flash")\r\n\r\nmodel.invoke("Hello, w
orld!")\r\n\r\n```\n\n### Error Message and Stack Trace (if applicable)\n\n
```\npython\r\n-----\n-----\r\nNameError                                Traceback (most re
cent call last)\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/_in
ternal/_generate_schema.py:815, in GenerateSchema._resolve_forward_ref(self,
obj)\r\n    814 try:\r\n--> 815         obj = _typing_extra.eval_type_backport(o
bj, *self._types_namespace)\r\n    816 except NameError as e:\r\n\r\nFile /o
pt/conda/lib/python3.10/site-packages/pydantic/_internal/_typing_extra.py:53
4, in eval_type_backport(value, globalns, localns, type_params)\r\n    533 t
ry:\r\n--> 534         return _eval_type_backport(value, globalns, localns, type
_params)\r\n    535 except TypeError as e:\r\n\r\nFile /opt/conda/lib/python
3.10/site-packages/pydantic/_internal/_typing_extra.py:558, in _eval_type_ba
ckport(value, globalns, localns, type_params)\r\n    557 try:\r\n--> 558

```

```

return _eval_type(value, globalns, localns, type_params)\r\n    559 except T
ypeError as e:\r\n\r\nFile /opt/conda/lib/python3.10/site-packages/pydantic/
_internal/_typing_extra.py:592, in _eval_type(value, globalns, localns, type
_params)\r\n    591 else:\r\n--> 592     return typing._eval_type( # type:
ignore\r\n    593         value, globalns, localns\r\n    594     )\r\n\r\nF
ile /opt/conda/lib/python3.10/typing.py:327, in _eval_type(t, globalns, loca
lns, recursive_guard)\r\n    326 if isinstance(t, ForwardRef):\r\n--> 327
return t._evaluate(globalns, localns, recursive_guard)\r\n    328 if isinsta
nce(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/con
da/lib/python3.10/typing.py:699, in ForwardRef._evaluate(self, globalns, loc
als, recursive_guard)\r\n    693 type_ = _type_check(\r\n    694     eval(s
elf.__forward_code__, globalns, localns),\r\n    695     "Forward reference
s must evaluate to types.",\r\n    696     is_argument=self.__forward_is_ar
gument__,\r\n    697     allow_special_forms=self.__forward_is_class__,\r\n
698 )\r\n--> 699 self.__forward_value__ = _eval_type(\r\n    700     type_,
globalns, localns, recursive_guard | {self.__forward_arg__}\r\n    701 )\r\n
702 self.__forward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/
typing.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n    3
28 if isinstance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n-->
329     ev_args = tuple(_eval_type(a, globalns, localns, recursive_guard) fo
r a in t.__args__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /op
t/conda/lib/python3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinsta
nce(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_ar
gs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__ar
gs__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/py
thon3.10/typing.py:327, in _eval_type(t, globalns, localns, recursive_guard)
\r\n    326 if isinstance(t, ForwardRef):\r\n--> 327     return t._evaluate(
globalns, localns, recursive_guard)\r\n    328 if isinstance(t, (_GenericAli
as, GenericAlias, types.UnionType)):\r\n\r\nFile /opt/conda/lib/python3.10/t
yping.py:699, in ForwardRef._evaluate(self, globalns, localns, recursive_gua
rd)\r\n    693 type_ = _type_check(\r\n    694     eval(self.__forward_code_
_, globalns, localns),\r\n    695     "Forward references must evaluate to
types.",\r\n    696     is_argument=self.__forward_is_argument__,\r\n    69
7     allow_special_forms=self.__forward_is_class__,\r\n    698 )\r\n--> 699
self.__forward_value__ = _eval_type(\r\n    700     type_, globalns, localn
s, recursive_guard | {self.__forward_arg__}\r\n    701 )\r\n    702 self.__f
orward_evaluated__ = True\r\n\r\nFile /opt/conda/lib/python3.10/typing.py:32
9, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 if isinst
ance(t, (_GenericAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_a
rgs = tuple(_eval_type(a, globalns, localns, recursive_guard) for a in t.__a
rgs__)\r\n    330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/p
ython3.10/typing.py:329, in <genexpr>(.0)\r\n    328 if isinstance(t, (_Gene
ricAlias, GenericAlias, types.UnionType)):\r\n--> 329     ev_args = tuple(_e
val_type(a, globalns, localns, recursive_guard) for a in t.__args__)\r\n
330     if ev_args == t.__args__:\r\n\r\nFile /opt/conda/lib/python3.10/typi
ng.py:329, in _eval_type(t, globalns, localns, recursive_guard)\r\n    328 i
f isinstance(t, (_GenericAlias, Generi"
}
{
    "_score": 0.9323593,

```

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    "_type": "issue",
    "_repo": "langchain",
    "_issueNumber": "28255",
    "_title": "Can't import ChatOpenAI: The `__modify_schema__` method is not supported in Pydantic v2. ",
    "_createdAt": "2024-11-21T10:40:40Z",
    "_closedAt": "2024-12-31T00:36:30Z",
    "_body": "### Checked other resources\n\n- [X] I added a very descriptive title to this issue.\n- [X] I searched the LangChain documentation with the integrated search.\n- [X] I used the GitHub search to find a similar question and didn't find it.\n- [X] I am sure that this is a bug in LangChain rather than my code.\n- [X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\n\n### Example Code\n\nThe following code straight from the docs fails already at the import statement:\n\n```\nfrom typing import Optional\nfrom pydantic import BaseModel, Field\nfrom langchain_openai import ChatOpenAI\n\nllm = ChatOpenAI(model=\"gpt-4o-mini\")\n\n# Pydantic\nclass Joke(BaseModel):\n    \"\"\"Joke to tell user.\"\"\"\n    setup: str = Field(description=\"The setup of the joke\")\n    punchline: str = Field(description=\"The punchline to the joke\")\n    rating: Optional[int] = Field(default=None, description=\"How funny the joke is, from 1 to 10\")\n\nstructured_llm = llm.with_structured_output(Joke)\nstructured_llm.invoke(\"Tell me a joke about cats\")\n```\n\n### Error Message and Stack Trace (if applicable)\n\nC:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: LangChainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydantic v2 internally. The langchain_core.pydantic_v1 module was a compatibility shim for pydantic v1, and should no longer be used. Please update the code to import from Pydantic directly.\n\nC:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py:1: LangChainDeprecationWarning: As of langchain-core 0.3.0, LangChain uses pydantic v2 internally. The langchain_core.pydantic_v1 module was a compatibility shim for pydantic v1, and should no longer be used. Please update the code to import from Pydantic directly.\n\nFor example, replace imports like: `from langchain_core.pydantic_v1 import BaseModel` with: `from pydantic import BaseModel` nor the v1 compatibility namespace if you are working in a code base that has not been fully upgraded to pydantic 2 yet. \n\nfrom pydantic.v1 import BaseModel\n\nfrom langchain_openai.chat_models.azure import AzureChatOpenAI\n\nC:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_config.py:345: UserWarning: Valid config keys have changed in V2:\n* 'allow_population_by_field_name' has been renamed to 'populate_by_name'\n\nwarnings.warn(message, UserWarning)\n\nTraceback (most recent call last):\n  File <frozen importlib._bootstrap>, line 1176, in _find_and_load\n  File <frozen importlib._bootstrap>, line 1147, in _find_and_load_unlocked\n  File <frozen importlib._bootstrap>, line 690, in _load_unlocked\n  File <frozen importlib._bootstrap_external>, line 940, in exec_module\n  File <frozen importlib._bootstrap>, line 241, in _call_with_frames_removed\n  File <C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\__init__.py>, line 1, in <module>\n    from langchain_openai.chat_models import Azur

```

```
eChatOpenAI, ChatOpenAI\r\n File "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\__init__.py", line 1, in <module>\r\n    from langchain_openai.chat_models.azure import AzureChatOpenAI\r\nFile "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\azure.py", line 41, in <module>\r\n    from langchain_openai.chat_models.base import BaseChatOpenAI\r\nFile "C:\\Users\\Egor\\Dropbox\\Code\\langchain\\libs\\partners\\openai\\langchain_openai\\chat_models\\base.py", line 353, in <module>\r\n    class BaseChatOpenAI(BaseChatModel):\r\nFile "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py", line 226, in __new__\r\n    complete_model_class(\r\nFile "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_model_construction.py", line 658, in complete_model_class\r\n    schema = cls.__get_pydantic_core_schema__(cls, handler)\r\n~~~~~  
~~~~~\r\nFile "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\main.py", line 697, in __get_pydantic_core_schema__\r\n    return handler(source)\r\n~~~~~  
~~~~~\r\nFile "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_schema_generation_shared.py", line 84, in __call__\r\n    schema = self._handler(source_type)\r\n~~~~~  
~~~~~\r\nFile "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py", line 612, in generate_schema\r\n    schema = self._generate_schema_inner(obj)\r\n~~~~~  
~~~~~\r\nFile "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\Lib\\site-packages\\pydantic\\_internal\\_generate_schema.py", line 881, in _generate_schema_inner\r\n    return self._model_schema(obj)\r\n~~~~~  
~~~~~\r\nFile "C:\\Users\\Egor\\.conda\\envs\\motleycrew3.11\\""}  
{
```

```
"_score": 0.9279109,  
"_type": "issue",  
"_repo": "langchain",  
"_issueNumber": "27960",  
"_title": "dict[str, pydantic_model] annotation not working with structured output",  
"_createdAt": "2024-11-07T13:10:32Z",  
"_closedAt": "2024-12-31T00:36:30Z",  
"_body": """## Checked other resources\n\n[X] I added a very descriptive title to this issue.\n[X] I searched the LangChain documentation with the integrated search.\n[X] I used the GitHub search to find a similar question and didn't find it.\n[X] I am sure that this is a bug in LangChain rather than my code.\n[X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\n\n### Example Code\n\n```\python\nfrom __future__ import annotations\n\nfrom typing import Optional\n\nfrom unittest import TestCase\n\nfrom dotenv import load_dotenv\n\nfrom langchain_openai import ChatOpenAI\n\nfrom pydantic import Field, BaseModel\n\nload_dotenv()\n\nclass CustomTestExtractorPropertiesCreation(TestCase):\n    def test_with_structured_output_dict(self):\n        \n        class Joke(BaseModel):\n            \"\"\"Joke to tell user\"\"\"\n            joke: str = Field(description='A funny joke')\n\n        llm = ChatOpenAI(model_name='gpt-4o-mini', temperature=0.5)\n\n        prompt_template = '''You are a comedian who tells jokes. Respond ONLY with the JSON object {joke}.'''\n\n        formatted_prompt = PromptTemplate(prompt_template).format_messages(messages=[HumanMessage('Tell me a joke.')])\n\n        response = llm.invoke(formatted_prompt)\n\n        print(response.content)'''"""
```



```

r.\\"\\\"\\r\\n\\r\\n
e joke\\")\\r\\n
to the joke\\")\\r\\n
default=None, description="How funny the joke is, from 1 to 10\\"\\r\\n
)\\r\\n
class MultipleJokes(BaseModel):\\r\\n
dict[str, Joke] = Field(description="Dictionary of joke_name and joke pairs
\\")\\r\\n\\r\\n
ChatOpenAI(name="gpt-4o-mini").with_structured_output(\\r\\n
MultipleJokes).invoke("Generate a number of name-joke pairs
\\")\\r\\n`\\`\\`\\n\\n### Error Message and Stack Trace (if applicable)\\n\\nError\\r\\n
Traceback (most recent call last):\\r\\n File \"/home/filip/work/llm-bot-frame
ework/llm-bot-framework/tests/integration/conversations/custom_test_extracto
r_properties_creation.py", line 25, in test_with_structured_output_dict\\r\\n
MultipleJokes).invoke("Generate a number of name-joke pairs")\\r\\n File
"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/
site-packages/langchain_core/runnables/base.py", line 3024, in invoke\\r\\n
input = context.run(step.invoke, input, config)\\r\\n File \"/home/filip/wor
k/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/lan
gchain_core/output_parsers/base.py", line 193, in invoke\\r\\n return sel
f._call_with_config(\\r\\n File \"/home/filip/work/llm-bot-framework/llm-bot-
framework/.venv/lib/python3.10/site-packages/langchain_core/runnables/base.p
y", line 1927, in _call_with_config\\r\\n context.run(\\r\\n File \"/home/f
ilip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-pack
ages/langchain_core/runnables/config.py", line 396, in call_func_with_varia
ble_args\\r\\n return func(input, **kwargs) # type: ignore[call-arg]\\r\\n
File \"/home/filip/work/llm-bot-framework/llm-bot-framework/.venv/lib/python
3.10/site-packages/langchain_core/output_parsers/base.py", line 194, in <la
mbda>\\r\\n lambda inner_input: self.parse_result(\\r\\n File \"/home/filip/
work/llm-bot-framework/llm-bot-framework/.venv/lib/python3.10/site-packages/
langchain_core/output_parsers/openai_tools.py", line 298, in parse_result\\r
\\n raise e\\r\\n File \"/home/filip/work/llm-bot-framework/llm-bot-framewo
rk/.venv/lib/python3.10/site-packages/langchain_core/output_parsers/openai_t
ools.py", line 293, in parse_result\\r\\n pydantic_objects.append(name_dic
t[res["type"]])(**res["args"])))\\r\\n File \"/home/filip/work/llm-bot-frame
ework/llm-bot-framework/.venv/lib/python3.10/site-packages/pydantic/main.py
", line 212, in __init__\\r\\n validated_self = self._pydantic_validator_
_.validate_python(data, self_instance=self)\\r\\npydantic_core._pydantic_core.
ValidationError: 1 validation error for MultipleJokes\\r\\nname_joke_pairs\\r\\n
Field required [type=missing, input_value={}, input_type=dict]\\r\\n For fu
rther information visit https://errors.pydantic.dev/2.9/v/missing\\n\\n### Des
cription\\n\\nI am trying to create MultipleJokes Pydantic Model (example). \\r
\\n**Expected result:**\\r\\nMultipleJokes object is created no error is return
ed\\r\\n**Actual result:**\\r\\nMissing field exception is raised on Pydantic va
lidation \\n\\n### System Info\\n\\nSystem Information\\r\\n-----\\r\\
n> OS: Linux\\r\\n> OS Version: #48-Ubuntu SMP PREEMPT_DYNAMIC Fri Sep 27 1
4:04:52 UTC 2024\\r\\n> Python Version: 3.10.15 (main, Sep 7 2024, 18:35:38)
[GCC 13.2.0]\\r\\n\\r\\nPackage Information\\r\\n-----\\r\\n> langchai
n_core: 0.3.15\\r\\n> langchain: 0.3.7\\r\\n> langsmith: 0.1.134\\r\\n> langchain_
anthropic: 0.2.3\\r\\n> langchain_google_genai: 2.0.1\\r\\n> langchain_groq: 0.
2.0\\r\\n> langchain_nvidia: Installed. No version info available.\\r\\n> langch
ain_nvidia_ai_endpoints: 0.3.0\\r\\n> langchain_openai: 0.2.2\\r\\n> langchain_t

```

```
ext_splitters: 0.3.0\r\n> langgraph: 0.2.38\r\n\r\nOptional packages not installed\r\n-----\r\n> langserve\r\n\r\nOther Dependencies\r\n-----\r\n> aiohttp: 3.10.10\r\n> anthropic: 0.36.0\r\n> async-timeout: 4.0.3\r\n> defusedxml: 0.7.1\r\n> google-generativeai: 0.8.3\r\n> groq: 0.11.0\r\n> httpx: 0.26.0\r\n> jsonpatch: 1.33\r\n> langgraph-checkpoint: 2.0.1\r\n> langgraph-sdk: 0.1.33\r\n> numpy: 1.26.4\r\n> openai: 1.51.2\r\n> orjson: 3.10.7\r\n> packaging: 24.1\r\n> pillow: 10.4.0\r\n> pydantic: 2.9.2\r\n}\n{\n    "_score": 0.92669773,\n    "_type": "issue",\n    "_repo": "langchain",\n    "_issueNumber": "28106",\n    "_title": "LangChain incorrectly applies strict (OpenAI's Structured Output) in schema generation from Pydantic model with union, causing OpenAI validation errors",\n    "_createdAt": "2024-11-14T13:13:41Z",\n    "_closedAt": "2024-12-31T00:36:30Z",\n    "_body": "### Checked other resources\r\n\r\n[X] I added a very descriptive title to this issue.\r\n\r\n[X] I searched the LangChain documentation with the integrated search.\r\n\r\n[X] I used the GitHub search to find a similar question and didn't find it.\r\n\r\n[X] I am sure that this is a bug in LangChain rather than my code.\r\n\r\n[X] The bug is not resolved by updating to the latest stable version of LangChain (or the specific integration package).\r\n\r\n\r\n### Example Code\r\n\r\n\r\n```\npython\r\nimport getpass\r\nimport os\r\nfrom typing import Union\r\n\r\nfrom langchain_openai import ChatOpenAI\r\n\r\nfrom openai import OpenAI\r\n\r\nfrom pydantic import BaseModel, Field\r\n\r\n\r\nclass Cooked(BaseModel):\r\n    cooked_recipe_name: str = Field(\r\n        description='Recipe name.'\r\n    )\r\n\r\nclass Baked(BaseModel):\r\n    baked_recipe_name: str = Field(\r\n        description='Recipe name.'\r\n    )\r\n\r\n\r\nclass Recipes(BaseModel):\r\n    recipes: list[Union[Cooked, Baked]] = Field(\r\n        description='A list of recipes or tables representing the data sources.'\r\n    )\r\n\r\nif \"OPENAI_API_KEY\" not in os.environ:\r\n    os.environ[\"OPENAI_API_KEY\"] = getpass.getpass(\"Enter your OpenAI API key: \")\r\n\r\nclient = OpenAI()\r\nmodel = \"gpt-4o-2024-08-06\"\r\nrecipe_names = \"Garlic Butter Lobster Tail, Pumpkin Spice Muffins, Spicy Korean Beef Bulgogi, Raspberry Almond Scones\"\r\n\r\ncompletion = client.beta.chat.completions.parse(\r\n    model=model,\r\n    messages=[\r\n        {\r\n            \"role\": \"user\", \r\n            \"content\": recipe_names,\r\n        },\r\n    ],\r\n    response_format=Recipes,\r\n)\r\n\r\nprint(\"OpenAI:\", completion.choices[0].message.parsed)\r\n\r\nllm = ChatOpenAI(model=model)\r\nllm = llm.with_structured_output(Recipes, strict=True)\r\n\r\nresponse = llm.invoke(recipe_names)\r\n\r\nprint(\"Langchain:\", response)\r\n\r\n```\r\n\r\n### Error Message and Stack Trace (if applicable)\r\n\r\n\r\nopenai.BadRequestError: Error code: 400 - {'error': {'message': 'Invalid schema for function 'Recipes': In context=('properties', 'recipes', 'items', 'anyOf', '0'), 'additionalProperties' is required to be supplied and to be false.', 'type': 'invalid_request_error', 'param': 'tools[0].function.parameters', 'code': 'invalid_function_parameters'}}\r\n\r\n\r\n\r\n### Description\r\n\r\n\r\nThe problem is that LangChain incorrectly applies the strict k
```

keyword to the schema generated from the Pydantic model for the specific case in the example code above. The culprit here is the union. The same Pydantic class works when I feed it directly to OpenAI. When I injected 'additionalProperties': False into the schema for the 'Baked' and 'Cooked' classes, the issue disappeared. I encountered the same problem when I had a Pydantic tool schema with a union similar to the one above. OpenAI only threw error when 'cooked\_recipe\_name' and 'baked\_recipe\_name' were 'recipe\_name', so I guess that is something to be careful about. OpenAI schema before calling API:

```
{
  '$defs': {
    'Baked': {
      'properties': {
        'baked_recipe_name': {
          'description': 'Recipe name.',
          'title': 'Baked Recipe Name',
          'type': 'string'
        }
      },
      'required': ['baked_recipe_name'],
      'title': 'Baked',
      'type': 'object',
      'additionalProperties': False
    },
    'Cooked': {
      'properties': {
        'cooked_recipe_name': {
          'description': 'Recipe name.',
          'title': 'Cooked Recipe Name',
          'type': 'string'
        }
      },
      'required': ['cooked_recipe_name'],
      'title': 'Cooked',
      'type': 'object',
      'additionalProperties': False
    }
  },
  'properties': {
    'recipes': {
      'description': 'A list of recipes or tables representing the data sources.',
      'items': {
        'anyOf': [
          {
            '$ref': '#/$defs/Cooked'
          },
          {
            '$ref': '#/$defs/Baked'
          }
        ]
      },
      'title': 'Recipes',
      'type': 'array'
    }
  },
  'required': ['recipes'],
  'title': 'Recipes',
  'type': 'object',
  'additionalProperties': False
}
```

OpenAI schema before calling API:

```
{
  'name': 'Recipes',
  'description': '',
  'parameters': {
    'properties': {
      'recipes': {
        'description': 'A list of recipes or tables representing the data sources.',
        'items': {
          'anyOf': [
            {
              'properties': {
                'cooked_recipe_name': {
                  'description': 'Recipe name.',
                  'title': 'Cooked Recipe Name',
                  'type': 'string'
                },
                'required': ['cooked_recipe_name'],
                'title': 'Cooked',
                'type': 'object'
              },
              'properties': {
                'baked_recipe_name': {
                  'description': 'Recipe name.',
                  'title': 'Baked Recipe Name',
                  'type': 'string'
                },
                'required': ['baked_recipe_name'],
                'title': 'Baked',
                'type': 'object'
              }
            ]
          },
          'required': ['recipes'],
          'type': 'object',
          'additionalProperties': False,
          'strict': True
        }
      }
    }
  }
}
```

System Info

```
naiohappyeyeballs==2.4.3
naiohttp==3.11.0
naiosignal==1.3.1
annotated-types==0.7.0
anyio==4.6.2
post1
nasync-timeout==4.0.3
nattrs==24.2.0
ncertifi==2024.8.30
ncharset-normalizer==3.4.0
ndistro==1.9.0
nexceptiongroup==1.2.2
nfrozenset==1.5.0
ngreenlet==3.1.1
nh11==0.14.0
nhttpcore==1.0.6
nhttpx==0.27.2
nidna==3.10
njiter==0.7.1
njsonpatch==1.33
njsonpointer==3.0.0
nlangchain==0.3.7
nlangchain-core==0.3.18
nlangchain-openai==0.2.8
nlangchain-text-splitters==0.3.2
nlangsmith==0.1.143
nmultidict==6.1.0
nnumpy==1.26.4
nopenai==1.54.4
norjson==3.10.11
npackaging==24.2
npropcache==0.2.0
npydantic==2.9.2
npydantic_core==2.23.4
nPyYA"
```

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  "_closedAt": "2024-12-31T00:36:30Z",
  "_body": "### Checked other resources\n\n- [X] I added a very descriptive"
```

file:///Users/purneshsv/Desktop/HW5\_ShiavrudrappaVidhyadhara\_Purn...er\_OpenAI\_Purnesh/Pull\_GitHub\_Issues/Pull\_Analytics\_Purnesh.html Page 388 of 397

```

ssing\n\n### Description\n\n\u6211\u60f3\u8981\u5b66\u4e60\u8fd0\u884c\u5b98
\u7f51\u4e2d\u7ed9\u51fa\u7684langgrap RAG\u76f8\u5173\u4ee3\u7801\u4f46\u51fa\u73b0\u4e86pydantic\u76f8\u5173\u7684\u5305\u7684\u62a5\u9519\u8bf
7\u95ee\u6211\u8981\u5982\u4f55\u89e3\u51b3\n\n\n### System Info\n\nnaiohap
pyeyeballs==2.4.3\nnaiohttp==3.10.10\nnaiosignal==1.3.1\nannotated-types
==0.7.0\nanthropic==0.38.0\nanyio==4.6.2.post1\nasynctimeout==4.0.3\n
nattrs==24.2.0\nbeautifulsoup4==4.12.3\nbs4==0.0.2\ncertifi==2024.8.3
0\ncharset-normalizer==3.4.0\ncolorama==0.4.6\dataclasses-json==0.6.7
\nndefusedxml==0.7.1\nndistro==1.9.0\nexceptiongroup==1.2.2\nfilelock=
=3.16.1\nfrozenlist==1.5.0\nfsspec==2024.10.0\ngreenlet==3.1.1\nh11=
=0.14.0\nhttpcore==1.0.6\nhttpx==0.27.2\nhttpx-sse==0.4.0\nhuggingfa
ce-hub==0.26.2\nidna==3.10\njiter==0.7.0\njsonpatch==1.33\njsonpoint
er==3.0.0\nlangchain==0.3.7\nlangchain-anthropic==0.2.4\nlangchain-com
munity==0.3.5\nlangchain-core==0.3.15\nlangchain-openai==0.2.5\nlangch
ain-text-splitters==0.3.2\nlanggraph==0.2.45\nlanggraph-checkpoint==2.0.
2\nlanggraph-sdk==0.1.35\nlangsmith==0.1.139\nmarshmallow==3.23.1\nm
sgpack==1.1.0\nmultidict==6.1.0\nmypy-extensions==1.0.0\nnumpy==1.26.4
\nopenai==1.53.0\norjson==3.10.11\npackaging==24.1\npropcache==0.2.0
\npydantic==2.9.2\npydantic-settings==2.6.1\npydantic_core==2.23.4\n
python-dotenv==1.0.1\nPyYAML==6.0.2\nregex==2024.9.11\nrequests==2.32.
3\nrequests-toolbelt==1.0.0\nsniffio==1.3.1\nsoupsieve==2.6\nSQLAlch
emy==2.0.35\ntenacity==9.0.0\ntiktoken==0.8.0\ntokenizers==0.20.1\n
tqdm==4.66.6\ntyping-inspect==0.9.0\ntyping_extensions==4.12.2\nurllib3
==2.2.3\nyaml==1.17.1\n"
}

```

## Part 2

### REQUIREMENT 1

1. <https://github.com/langchain-ai/langchain>
2. <https://github.com/langchain-ai/langgraph>
3. <https://github.com/microsoft/autogen>
4. <https://github.com/openai/openai-cookbook>
5. <https://github.com/elastic/elasticsearch>
6. <https://github.com/milvus-io/pymilvus>

Create a Bar Chart to plot the number of issues created for every repo for every day of the week; that is total number of issues created on Monday, Tuesday, Wednesday ..., Sunday for EVERY Repo name.

In [20]: `from collections import defaultdict`

```

from datetime import datetime, timedelta
import requests
import matplotlib.pyplot as plt

# GitHub API endpoint for issues
API_URL = "https://api.github.com/repos/{}/issues"

# Function to fetch issues for a repository
def fetch_issues(repo_url):
    repo_name = repo_url.split("/")[-2] + "/" + repo_url.split("/")[-1]
    response = requests.get(API_URL.format(repo_name))
    if response.status_code == 200:
        return response.json()
    else:
        print("Failed to fetch issues for", repo_url)
        print("Status code:", response.status_code)
        print("Response:", response.text)
        return []

# Function to filter issues for the past 2 months
def filter_issues_for_past_2_months(issues):
    two_months_ago = datetime.now() - timedelta(days=30*2)
    return [issue for issue in issues if datetime.strptime(issue['created_at'], '%Y-%m-%dT%H:%M:%S.%fZ') > two_months_ago]

# Function to count the number of issues created on each day of the week for a repository
def count_issues_per_day_of_week(issues):
    issues_per_day = defaultdict(int)
    for issue in issues:
        created_at = datetime.strptime(issue['created_at'], '%Y-%m-%dT%H:%M:%S.%fZ')
        day_of_week = created_at.strftime('%A') # Get the day of the week (e.g., Monday, Tuesday, etc.)
        issues_per_day[day_of_week] += 1
    return issues_per_day

# Function to create a bar chart of issues created on each day of the week for a repository
def plot_issues_per_day_of_week(repo_name, issues_per_day):
    days_of_week = ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday']
    issue_counts = [issues_per_day[day] for day in days_of_week]

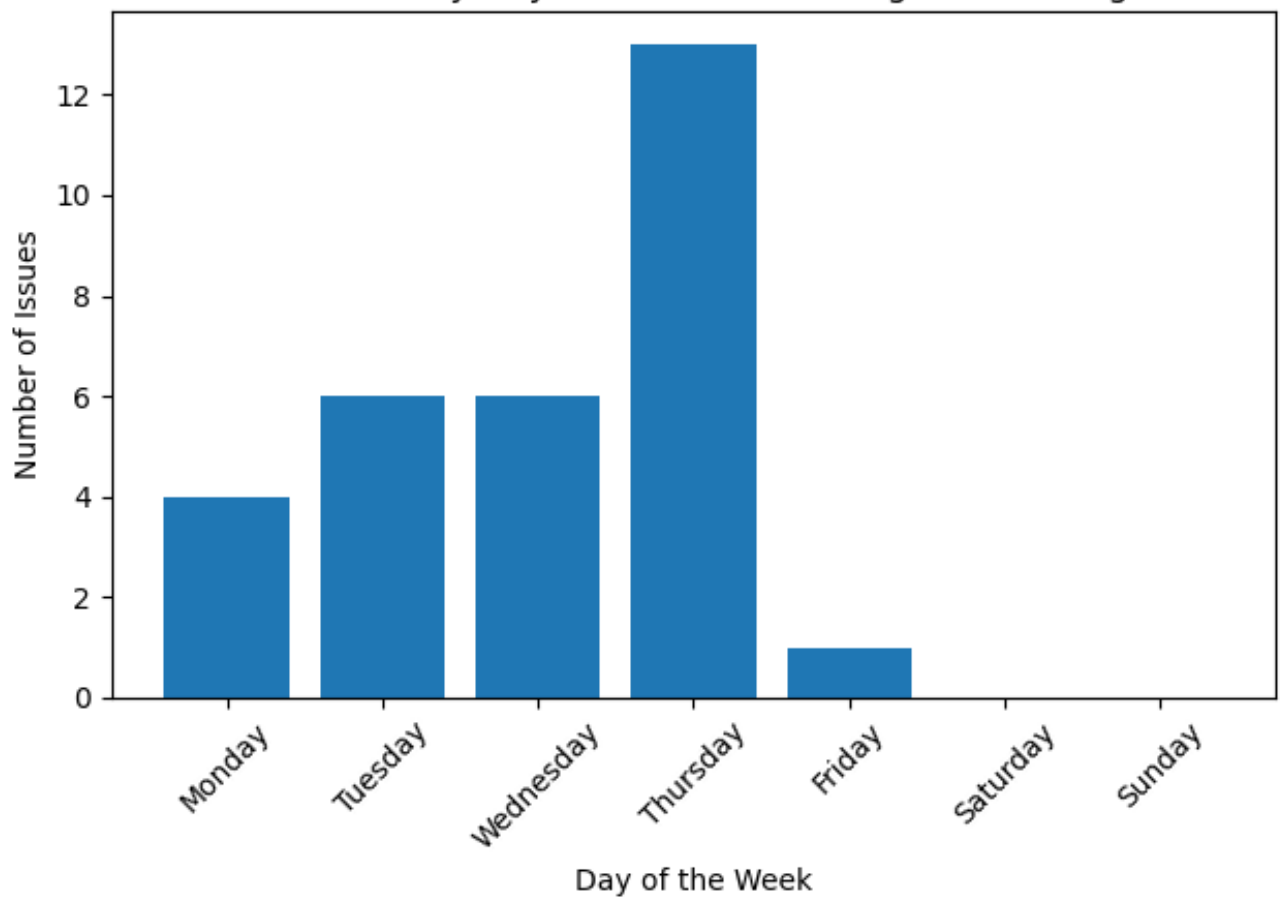
    plt.bar(days_of_week, issue_counts)
    plt.title('Issues Created by Day of the Week for {}'.format(repo_name))
    plt.xlabel('Day of the Week')
    plt.ylabel('Number of Issues')
    plt.xticks(rotation=45)
    plt.tight_layout()
    plt.show()

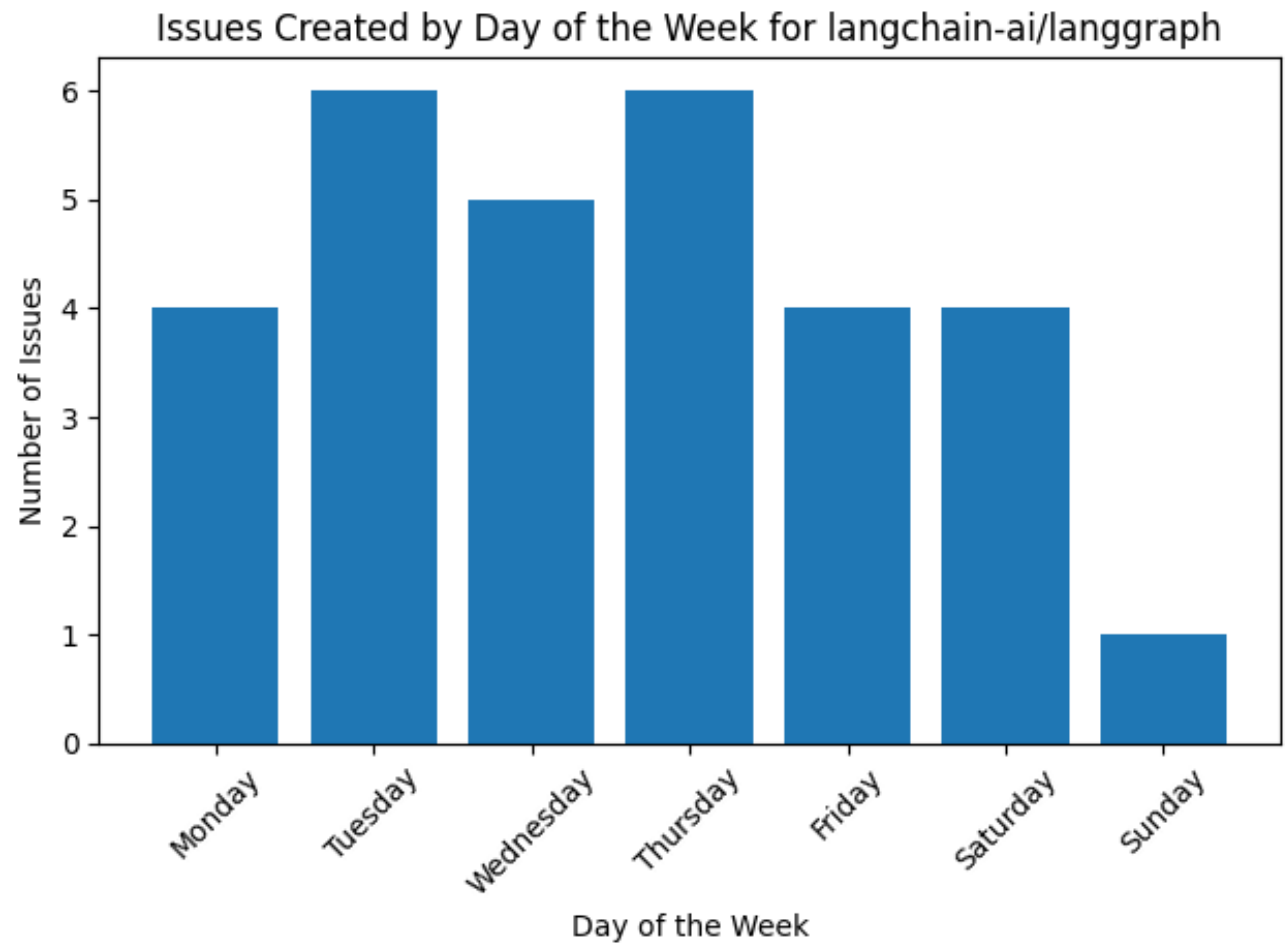
# Repositories to analyze
repositories = [
    "https://github.com/langchain-ai/langchain",
    "https://github.com/langchain-ai/langgraph",

```

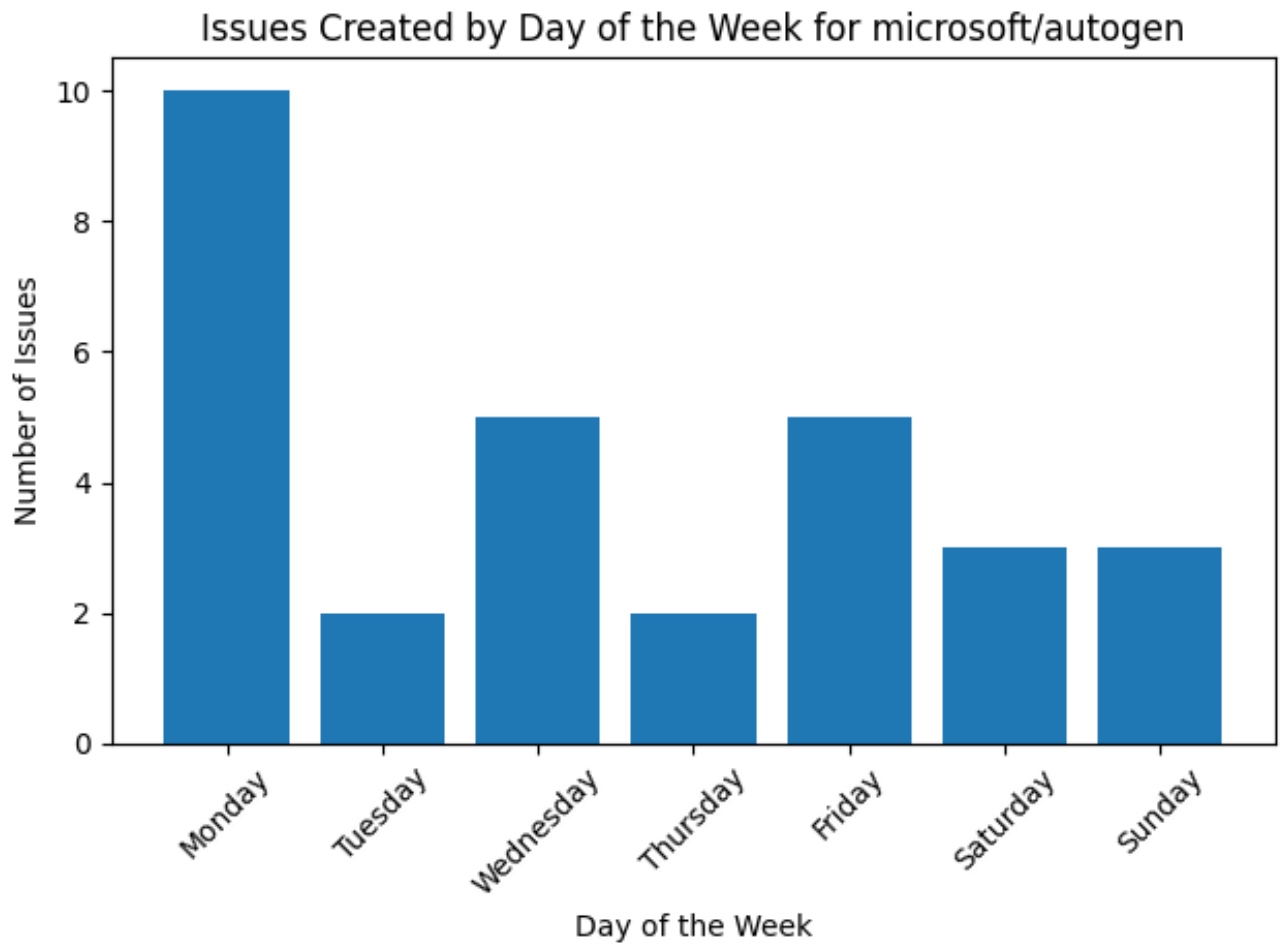
```
        "https://github.com/microsoft/autogen",  
        "https://github.com/openai/openai-cookbook",  
        "https://github.com/elastic/elasticsearch",  
        "https://github.com/milvus-io/pymilvus"  
    ]  
  
    # Fetch, filter, and plot issues for each repository  
    for repo in repositories:  
        issues = fetch_issues(repo)  
        if issues:  
            issues = filter_issues_for_past_2_months(issues)  
            issues_per_day = count_issues_per_day_of_week(issues)  
            repo_name = repo.split("/")[-2] + "/" + repo.split("/")[-1]  
            plot_issues_per_day_of_week(repo_name, issues_per_day)
```

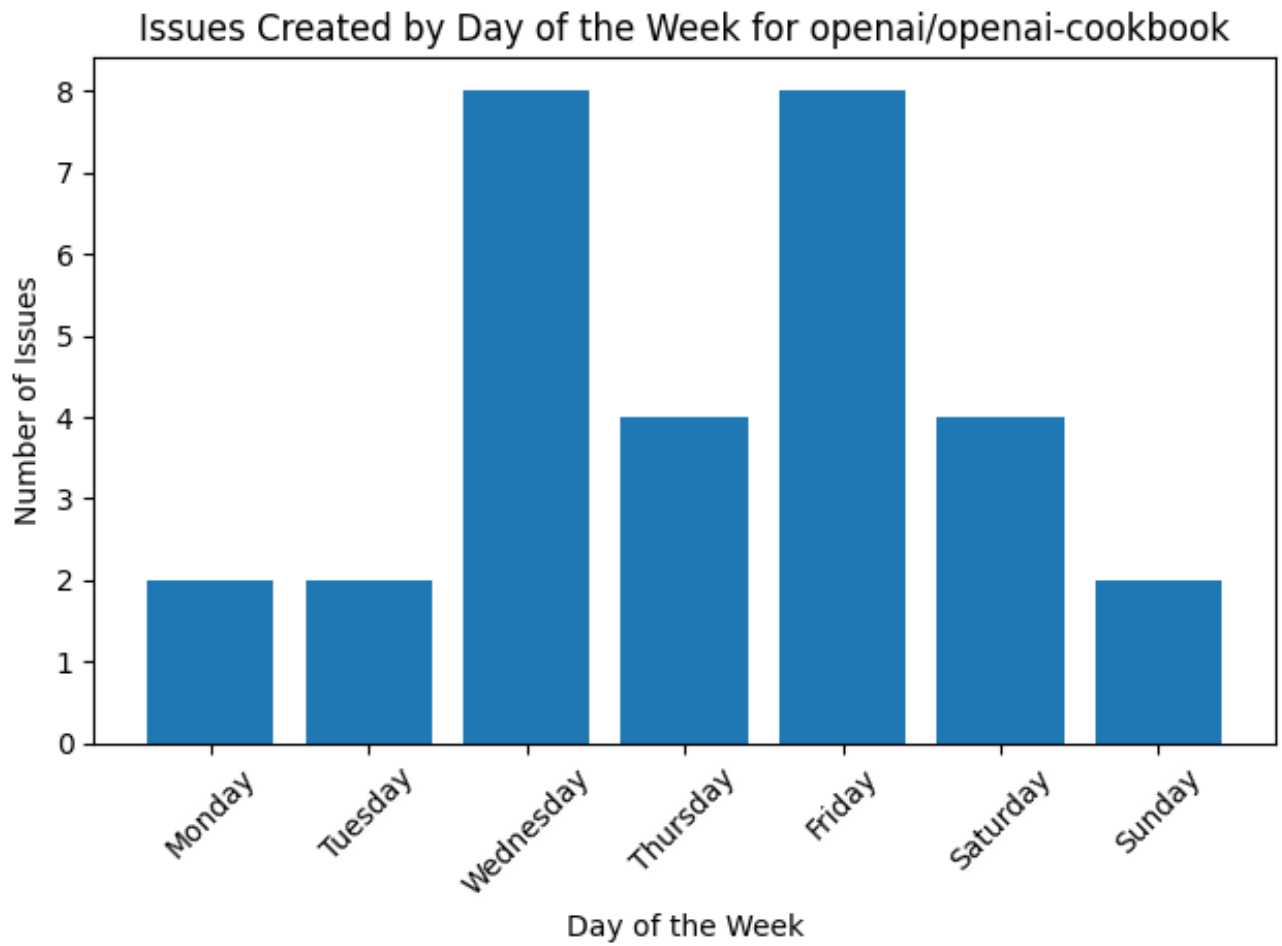
Issues Created by Day of the Week for langchain-ai/langchain

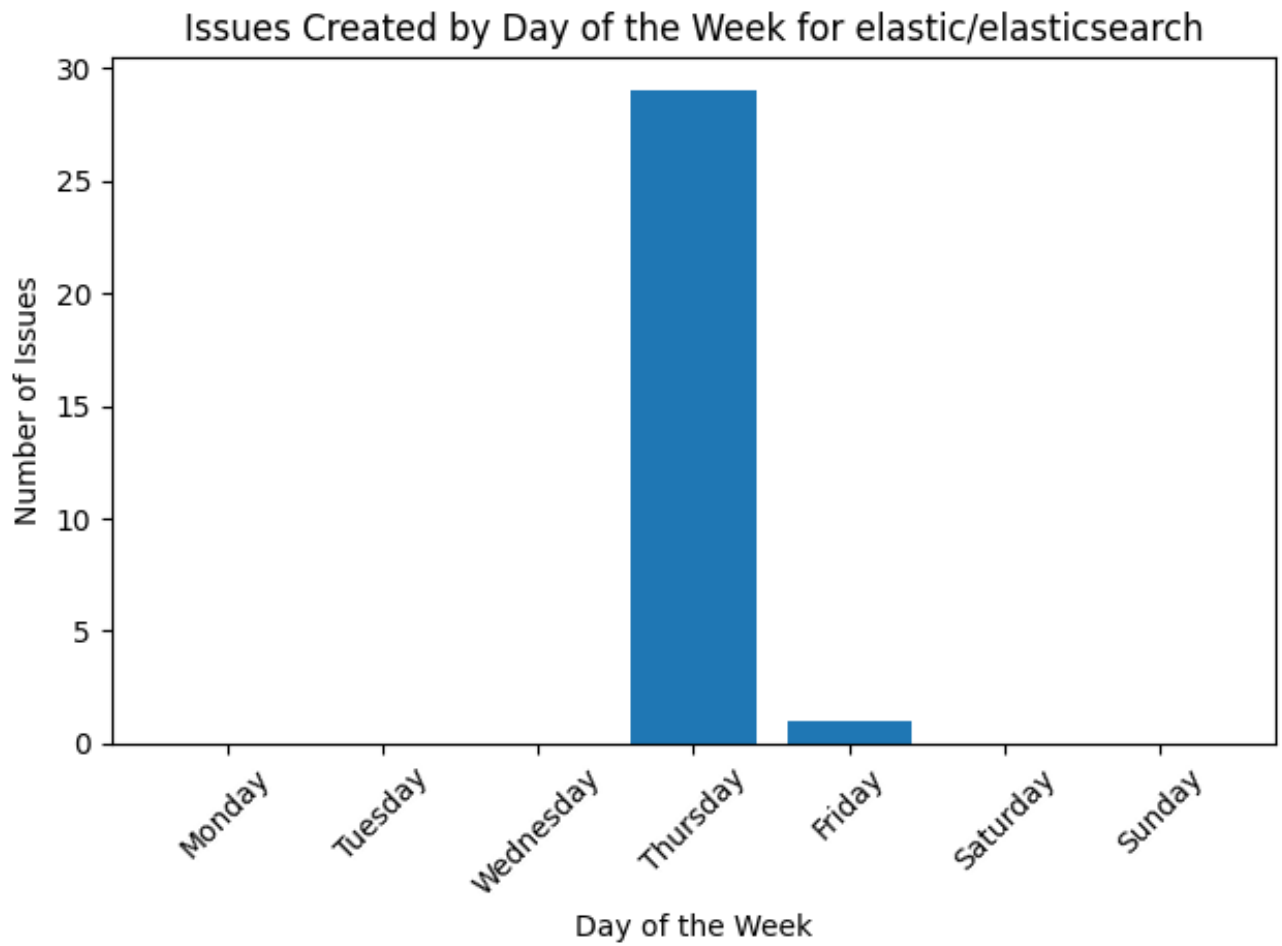


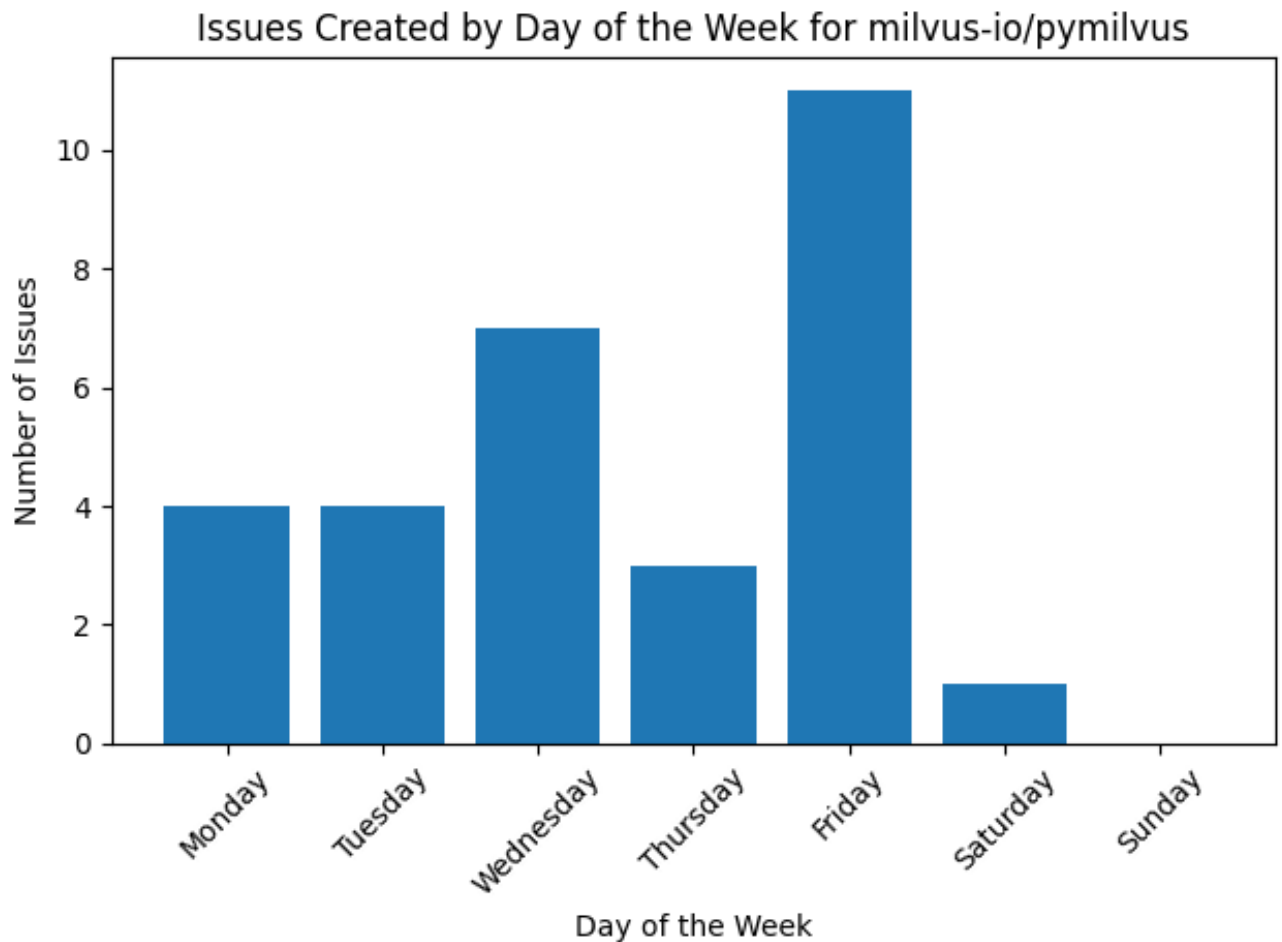












## Sanity Test:

Execute following commands from the command window/terminal:

**To verify the index got created:**

- `curl -XGET "http://localhost:9200/_cat/indices?v"`

**To check the structure of index:**

- `curl -X GET "localhost:9200/github_issues?pretty"`

**To check the stats of the index:**

- `curl -X GET "localhost:9200/github_issues/_stats?pretty"`

**To dump the documents in the index to stdout:**

- `curl -XGET "http://localhost:9200/github_issues/_search?pretty=true"`

**To dump the mapping of the index to stdout:**

- `curl -XGET "localhost:9200/github_issues/_mapping?pretty"`

## How to delete the index?

**To delete the index you created:**

- `curl -XDELETE "http://localhost:9200/github\_issues?pretty"`