```python
!pip install -qU langchain-groq
!pip install langchain
!pip install langchain-community
!pip install chromadb
!pip install pandas
```

Requirement already satisfied: six>=1.9.0 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (1.17.0)
Requirement already satisfied: python-dateutil>=2.5.3 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb)
Requirement already satisfied: google-auth>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (2.2
Requirement already satisfied: websocket-client!=0.40.0,!=0.41.*,!=0.42.*,>=0.32.0 in /usr/local/lib/python3.10/dist-packages (from k
Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (2.32.3)
Requirement already satisfied: requests-oauthlib in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (1.3.
Requirement already satisfied: oauthlib>=3.2.2 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (3.2.2)
Requirement already satisfied: urllib3>=1.24.2 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (2.2.3)
Requirement already satisfied: durationpy>=0.7 in /usr/local/lib/python3.10/dist-packages (from kubernetes>=28.1.0->chromadb) (0.9)
Requirement already satisfied: coloredlogs in /usr/local/lib/python3.10/dist-packages (from onnxruntime>=1.14.1->chromadb) (15.0.1)
Requirement already satisfied: flatbuffers in /usr/local/lib/python3.10/dist-packages (from onnxruntime>=1.14.1->chromadb) (24.3.25)
Requirement already satisfied: protobuf in /usr/local/lib/python3.10/dist-packages (from onnxruntime>=1.14.1->chromadb) (5.29.1)
Requirement already satisfied: sympy in /usr/local/lib/python3.10/dist-packages (from onnxruntime>=1.14.1->chromadb) (1.13.1)
Requirement already satisfied: deprecated>=1.2.6 in /usr/local/lib/python3.10/dist-packages (from opentelemetry-api>=1.2.0->chromadb)
Requirement already satisfied: importlib-metadata<=8.5.0,>=6.0 in /usr/local/lib/python3.10/dist-packages (from opentelemetry-api>=1.
Requirement already satisfied: googleapis-common-protos~=1.52 in /usr/local/lib/python3.10/dist-packages (from opentelemetry-exporter
Requirement already satisfied: opentelemetry-exporter-otlp-proto-common==1.29.0 in /usr/local/lib/python3.10/dist-packages (from open
Requirement already satisfied: opentelemetry-proto==1.29.0 in /usr/local/lib/python3.10/dist-packages (from opentelemetry-exporter-ot
Requirement already satisfied: opentelemetry-instrumentation-asgi==0.50b0 in /usr/local/lib/python3.10/dist-packages (from opanteleme
Requirement already satisfied: opentelemetry-instrumentation==0.50b0 in /usr/local/lib/python3.10/dist-packages (from opentelemetry-i
Requirement already satisfied: opentelemetry-semantic-conventions==0.50b0 in /usr/local/lib/python3.10/dist-packages (from opanteleme
Requirement already satisfied: opentelemetry-util-http==0.50b0 in /usr/local/lib/python3.10/dist-packages (from opentelemetry-instrum
Requirement already satisfied: wrapt<2.0.0,>=1.0.0 in /usr/local/lib/python3.10/dist-packages (from opentelemetry-instrumentation==0.
Requirement already satisfied: asgiref~=3.0 in /usr/local/lib/python3.10/dist-packages (from opentelemetry-instrumentation-asgi==0.50
Requirement already satisfied: monotonic>=1.5 in /usr/local/lib/python3.10/dist-packages (from posthog>=2.4.0->chromadb) (1.6)
Requirement already satisfied: backoff>=1.10.0 in /usr/local/lib/python3.10/dist-packages (from posthog>=2.4.0->chromadb) (2.2.1)
Requirement already satisfied: annotated-types>=0.6.0 in /usr/local/lib/python3.10/dist-packages (from pydantic>=1.9->chromadb) (0.7.
Requirement already satisfied: pydantic-core==2.27.1 in /usr/local/lib/python3.10/dist-packages (from pydantic>=1.9->chromadb) (2.27.
Requirement already satisfied: markdown-it-py>=2.2.0 in /usr/local/lib/python3.10/dist-packages (from rich>=10.11.0->chromadb) (3.0.0
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /usr/local/lib/python3.10/dist-packages (from rich>=10.11.0->chromadb) (2.1
Requirement already satisfied: huggingface-hub<1.0,>=0.16.4 in /usr/local/lib/python3.10/dist-packages (from tokenizers<=0.20.3,>=0.1
Requirement already satisfied: click>=8.0.0 in /usr/local/lib/python3.10/dist-packages (from typer>=0.9.0->chromadb) (8.1.7)
Requirement already satisfied: shellingham>=1.3.0 in /usr/local/lib/python3.10/dist-packages (from typer>=0.9.0->chromadb) (1.5.4)
Requirement already satisfied: httptools>=0.6.3 in /usr/local/lib/python3.10/dist-packages (from uvicorn[standard]>=0.18.3->chromadb)
Requirement already satisfied: python-dotenv>=0.13 in /usr/local/lib/python3.10/dist-packages (from uvicorn[standard]>=0.18.3->chroma
Requirement already satisfied: uvloop!=0.15.0,!=0.15.1,>=0.14.0 in /usr/local/lib/python3.10/dist-packages (from uvicorn[standard]>=0
Requirement already satisfied: watchfiles>=0.13 in /usr/local/lib/python3.10/dist-packages (from uvicorn[standard]>=0.18.3->chromadb)
Requirement already satisfied: websockets>=10.4 in /usr/local/lib/python3.10/dist-packages (from uvicorn[standard]>=0.18.3->chromadb)
Requirement already satisfied: cachetools<6.0,>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from google-auth>=1.0.1->kubernetes
Requirement already satisfied: pyasn1-modules>=0.2.1 in /usr/local/lib/python3.10/dist-packages (from google-auth>=1.0.1->kubernetes>
Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.10/dist-packages (from google-auth>=1.0.1->kubernetes>=28.1.0-
Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from huggingface-hub<1.0,>=0.16.4->tokenizers<=0.
Requirement already satisfied: fsspec>=2023.5.0 in /usr/local/lib/python3.10/dist-packages (from huggingface-hub<1.0,>=0.16.4->tokeni
Requirement already satisfied: zipp>=3.20 in /usr/local/lib/python3.10/dist-packages (from importlib-metadata<=8.5.0,>=6.0->opentelem
Requirement already satisfied: mdurl~=0.1 in /usr/local/lib/python3.10/dist-packages (from markdown-it-py>=2.2.0->rich>=10.11.0->chro
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->kubernetes>=28.1.0
Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.10/dist-packages (from anyio->httpx>=0.27.0->chromadb) (1.3.1)
Requirement already satisfied: exceptiongroup in /usr/local/lib/python3.10/dist-packages (from anyio->httpx>=0.27.0->chromadb) (1.2.2
Requirement already satisfied: humanfriendly>=9.1 in /usr/local/lib/python3.10/dist-packages (from coloredlogs->onnxruntime>=1.14.1->
Requirement already satisfied: mpmath<1.4,>=1.1.0 in /usr/local/lib/python3.10/dist-packages (from sympy->onnxruntime>=1.14.1->chroma
Requirement already satisfied: pyasn1<0.7.0,>=0.4.6 in /usr/local/lib/python3.10/dist-packages (from pyasn1-modules>=0.2.1->google-au
Requirement already satisfied: pandas in /usr/local/lib/python3.10/dist-packages (2.2.2)
Requirement already satisfied: numpy>=1.22.4 in /usr/local/lib/python3.10/dist-packages (from pandas) (1.26.4)
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.10/dist-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas) (2024.2)
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.10/dist-packages (from pandas) (2024.2)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.8.2->pandas) (1.17.0)

```python
from langchain_groq import ChatGroq

llama = ChatGroq(
    api_key = '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',
    model_name = 'llama-3.3-70b-versatile'
)
```

```python
AI_response = llama.invoke('Welcome Message to the Client')
AI_response
```

AIMessage(content='**Warm Welcome**\n\nOn behalf of our entire team, I would like to extend a warm welcome to you. We are thrilled to have the opportunity to work with you and look forward to building a strong and successful partnership.\n\nOur goal is to provide you with exceptional service, tailored to your unique needs and requirements. We are committed to delivering high-quality solutions that exceed your expectations and help you achieve your goals.\n\nPlease feel free to reach out to us at any time if you have any questions, concerns, or need assistance. We are always here to help and support you throughout our journey together.\n\nOnce again, thank you for

choosing us, and we look forward to a long and fruitful collaboration.\n\n**Best Regards**\n[Your Name]', additional_kwargs={},
response_metadata={'token_usage': {'completion_tokens': 147, 'prompt_tokens': 40, 'total_tokens': 187, 'completion_time': 0.534545455,
'prompt_time': 0.007590133, 'queue_time': 0.00045052499999999936, 'total_time': 0.542135588}, 'model_name': 'llama-3.3-70b-versatile',
'system_fingerprint': 'fp_4e32347616', 'finish_reason': 'stop', 'logprobs': None}, id='run-be019d1b-e8c4-4c47-b749-24ad5e716397-0',
usage_metadata={'input_tokens': 40, 'output_tokens': 147, 'total_tokens': 187})

```python
from langchain_community.document_loaders import WebBaseLoader
loader = WebBaseLoader("https://jobs.nike.com/job/R-46165")
page_scrap = loader.load().pop().page_content
page_scrap
```

'Apply for Senior Software Engineer, ITC\n\nSearch JobsSkip navigationSearch JobsNIKE, INC. JOBSContract JobsJoin The Talent CommunityL
ife @ NikeOverviewBenefitsBrandsOverviewJordanConverseTeamsOverviewAdministrative SupportAdvanced InnovationAir Manufacturing Innovatio
nAviationCommunicationsCustomer ServiceDesignDigitalFacilitiesFinance & AccountingGovernment & Public AffairsHuman ResourcesInsights &
AnalyticsLegalManufacturing & EngineeringMarketingMerchandisingPlanningPrivacyProcurementProduct Creation, Development & ManagementReta
il CorporateRetail StoresSalesSocial & Community ImpactSports MarketingStrategic PlanningSupply Chain, Distribution & LogisticsSustaina
bilityTechnologyLocationsOverviewNike WHQNike New York HQEHQ: Hilversum, The NetherlandsELC: Laakdal, BelgiumGreater China HQDiversity

```python
from langchain_core.prompts import PromptTemplate

extract = PromptTemplate.from_template(
    """
        ### SCRAPED TEXT FROM WEBSITE:
        {page_data}
        ### INSTRUCTION:
        The scraped text is from the career's page of a website.
        Your job is to extract the job postings and return them in JSON format containing the
        following keys: `role`, `experience`, `skills` and `description`.
        Only return the valid JSON.
        ### VALID JSON (NO PREAMBLE):
        """
)


chain_extract = extract | llama
res = chain_extract.invoke(input={'page_data':page_scrap})
type(res.content)
```

str

```python
from langchain_core.output_parsers import JsonOutputParser

json_parser = JsonOutputParser()
json_res = json_parser.parse(res.content)
json_res
```

```
{'role': 'Senior Software Engineer, ITC',
 'experience': '5-8 years',
 'skills': ['Java',
  'Scala',
  'Node.js',
  'TyperScript',
  'Serverless AWS',
  'ReactJs',
  'Vue',
  'Micro service architecture',
  'Domain driven design',
  'RESTful Services',
  'Relational and Non-relational databases',
  'MySQL',
  'DynamoDB',
  'Elastic Search',
  'CICD',
  'Unit testing',
  'Static analysis',
  'Automated integration tests',
  'Scrum',
  'Agile principles',
  'Common design patterns',
  'Distributed processing of large datasets',
  'CI/CD',
  'DevSecOps Engineering',
  'Jenkins',
  'GitHub',
  'SonarQube',
  'Harness',
  'Prisma'],
 'description': 'As a Senior Software Engineer, you will be involved in designing and building secure, highly scalable and innovative
services in a continuous delivery model on the Nike cloud platform. This role will partner with leads and architects to deliver web
```

services that are robust, architecturally sound, easily maintainable and highly scalable for various Nike partner experiences and platform.'}

```
type(json_res)
```

```
dict
```

```python
import pandas as pd
url = "https://drive.google.com/uc?export=download&id=1rX3J2MJeKmASTtkScAo_6jgPukgpu9Be"
df = pd.read_csv(url)
df
```

	Techstack	Links
0	React, Node.js, MongoDB	https://example.com/react-portfolio
1	Angular,.NET, SQL Server	https://example.com/angular-portfolio
2	Vue.js, Ruby on Rails, PostgreSQL	https://example.com/vue-portfolio
3	Python, Django, MySQL	https://example.com/python-portfolio
4	Java, Spring Boot, Oracle	https://example.com/java-portfolio
5	Flutter, Firebase, GraphQL	https://example.com/flutter-portfolio
6	WordPress, PHP, MySQL	https://example.com/wordpress-portfolio
7	Magento, PHP, MySQL	https://example.com/magento-portfolio
8	React Native, Node.js, MongoDB	https://example.com/react-native-portfolio
9	iOS, Swift, Core Data	https://example.com/ios-portfolio
10	Android, Java, Room Persistence	https://example.com/android-portfolio
11	Kotlin, Android, Firebase	https://example.com/kotlin-android-portfolio
12	Android TV, Kotlin, Android NDK	https://example.com/android-tv-portfolio
13	iOS, Swift, ARKit	https://example.com/ios-ar-portfolio
14	Cross-platform, Xamarin, Azure	https://example.com/xamarin-portfolio
15	Backend, Kotlin, Spring Boot	https://example.com/kotlin-backend-portfolio
16	Frontend, TypeScript, Angular	https://example.com/typescript-frontend-portfolio
17	Full-stack, JavaScript, Express.js	https://example.com/full-stack-js-portfolio
18	Machine Learning, Python, TensorFlow	https://example.com/ml-python-portfolio
19	DevOps, Jenkins, Docker	https://example.com/devops-portfolio

Start coding or generate with AI.

```python
import uuid
import chromadb

client = chromadb.PersistentClient('vectorstore')
collection = client.get_or_create_collection(name="portfolio")

if not collection.count():
    for _, row in df.iterrows():
        collection.add(documents=row["Techstack"],
                       metadatas={"links": row["Links"]},
                       ids=[str(uuid.uuid4())])
```

```python
job = {
    'role': json_res['role'],
    'experience': json_res['experience'],
    'skills': json_res['skills']
}
```

```python
links = collection.query(query_texts=job['skills'], n_results=2).get('metadatas', [])
links
```

```
[[{'links': 'https://example.com/java-portfolio'},
  {'links': 'https://example.com/android-portfolio'}],
```

```
[{'links': 'https://example.com/ml-python-portfolio'},
 {'links': 'https://example.com/kotlin-android-portfolio'}],
[{'links': 'https://example.com/react-portfolio'},
 {'links': 'https://example.com/full-stack-js-portfolio'}],
[{'links': 'https://example.com/typescript-frontend-portfolio'},
 {'links': 'https://example.com/full-stack-js-portfolio'}],
[{'links': 'https://example.com/devops-portfolio'},
 {'links': 'https://example.com/angular-portfolio'}],
[{'links': 'https://example.com/react-portfolio'},
 {'links': 'https://example.com/react-native-portfolio'}],
[{'links': 'https://example.com/vue-portfolio'},
 {'links': 'https://example.com/ios-ar-portfolio'}],
[{'links': 'https://example.com/android-portfolio'},
 {'links': 'https://example.com/xamarin-portfolio'}],
[{'links': 'https://example.com/kotlin-backend-portfolio'},
 {'links': 'https://example.com/android-portfolio'}],
[{'links': 'https://example.com/wordpress-portfolio'},
 {'links': 'https://example.com/kotlin-backend-portfolio'}],
[{'links': 'https://example.com/magento-portfolio'},
 {'links': 'https://example.com/wordpress-portfolio'}],
[{'links': 'https://example.com/magento-portfolio'},
 {'links': 'https://example.com/wordpress-portfolio'}],
[{'links': 'https://example.com/flutter-portfolio'},
 {'links': 'https://example.com/kotlin-android-portfolio'}],
[{'links': 'https://example.com/ml-python-portfolio'},
 {'links': 'https://example.com/vue-portfolio'}],
[{'links': 'https://example.com/magento-portfolio'},
 {'links': 'https://example.com/wordpress-portfolio'}],
[{'links': 'https://example.com/ios-portfolio'},
 {'links': 'https://example.com/android-portfolio'}],
[{'links': 'https://example.com/ml-python-portfolio'},
 {'links': 'https://example.com/android-portfolio'}],
[{'links': 'https://example.com/devops-portfolio'},
 {'links': 'https://example.com/ml-python-portfolio'}],
[{'links': 'https://example.com/devops-portfolio'},
 {'links': 'https://example.com/java-portfolio'}],
[{'links': 'https://example.com/java-portfolio'},
 {'links': 'https://example.com/ios-ar-portfolio'}],
[{'links': 'https://example.com/android-portfolio'},
 {'links': 'https://example.com/java-portfolio'}],
[{'links': 'https://example.com/ml-python-portfolio'},
 {'links': 'https://example.com/flutter-portfolio'}],
[{'links': 'https://example.com/magento-portfolio'},
 {'links': 'https://example.com/wordpress-portfolio'}],
[{'links': 'https://example.com/devops-portfolio'},
 {'links': 'https://example.com/ml-python-portfolio'}],
[{'links': 'https://example.com/devops-portfolio'},
 {'links': 'https://example.com/kotlin-backend-portfolio'}],
[{'links': 'https://example.com/devops-portfolio'},
 {'links': 'https://example.com/wordpress-portfolio'}],
[{'links': 'https://example.com/ios-ar-portfolio'},
 {'links': 'https://example.com/devops-portfolio'}],
[{'links': 'https://example.com/kotlin-backend-portfolio'},
 {'links': 'https://example.com/ml-python-portfolio'}],
[{'links': 'https://example.com/ios-ar-portfolio'},
 {'links': 'https://example.com/ml-python-portfolio'}]]
```

job

```
{'role': 'Senior Software Engineer, ITC',
 'experience': '5-8 years',
 'skills': ['Java',
  'Scala',
  'Node.js',
  'TyperScript',
  'Serverless AWS',
  'ReactJs',
  'Vue',
  'Micro service architecture',
  'Domain driven design',
  'RESTful Services',
  'Relational and Non-relational databases',
  'MySQL',
  'DynamoDB',
  'Elastic Search',
  'CICD',
  'Unit testing',
  'Static analysis',
  'Automated integration tests',
  'Scrum',
  'Agile principles',
  'Common design patterns',
  'Distributed processing of large datasets',
  'CI/CD',
```

```
        'DevSecOps Engineering',
        'Jenkins',
        'GitHub',
        'SonarQube',
        'Harness',
        'Prisma']}
```

```
job = json_res
job['skills']
```

```
['Java',
 'Scala',
 'Node.js',
 'TyperScript',
 'Serverless AWS',
 'ReactJs',
 'Vue',
 'Micro service architecture',
 'Domain driven design',
 'RESTful Services',
 'Relational and Non-relational databases',
 'MySQL',
 'DynamoDB',
 'Elastic Search',
 'CICD',
 'Unit testing',
 'Static analysis',
 'Automated integration tests',
 'Scrum',
 'Agile principles',
 'Common design patterns',
 'Distributed processing of large datasets',
 'CI/CD',
 'DevSecOps Engineering',
 'Jenkins',
 'GitHub',
 'SonarQube',
 'Harness',
 'Prisma']
```

```
prompt_email = PromptTemplate.from_template(
        """
        ### JOB DESCRIPTION:
        {job_description}

        ### INSTRUCTION:
        You are Xyz, a business development executive at AtliQ. AtliQ is an AI & Software Consulting company dedicated to facilitating
        the seamless integration of business processes through automated tools.
        Over our experience, we have empowered numerous enterprises with tailored solutions, fostering scalability,
        process optimization, cost reduction, and heightened overall efficiency.
        Your job is to write a cold email to the client regarding the job mentioned above describing the capability of AtliQ
        in fulfilling their needs.
        Remember you are Xyz, BDE at AtliQ.
        Do not provide a preamble.
        ### EMAIL (NO PREAMBLE):

        """
        )

chain_email = prompt_email | llama
res = chain_email.invoke({"job_description": str(job), "link_list": links})
print(res.content)
```

Subject: Expert Software Engineering Services for Nike Cloud Platform

Dear Hiring Manager,

I came across the job description for a Senior Software Engineer, ITC at Nike, and I am excited to introduce AtliQ, an AI & Software Con

Our team of skilled software engineers has extensive experience in working with a range of technologies, including Java, Scala, Node.js,

At AtliQ, we follow Agile principles and are familiar with common design patterns, distributed processing of large datasets, and CI/CD t

We would be delighted to discuss how our capabilities align with your requirements and explore ways in which we can support your team in

Best regards,

Xyz
Business Development Executive
AtliQ