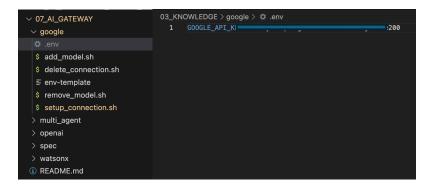
Lab 03_KNOWLEDGE RAG

Add google gemini model

- 1. Cd in to 03_KNOWLEDGE/google Folder
- 2. Add .env file in google folder
- 3. In .env file, add the GOOGLE_API_KEY
 - To optain Google API go to this <u>link</u>



4. Create virtual environment .venv

```
python3.11 -m venv .venv
source .venv/bin/activate
pip install ibm-watsonx-orchestrate
```

5. Add virtual environment to Orchestrate instance

```
orchestrate env add -n .venv -u <YOUR_ORCHESTRATE_URL> orchestrate env activate .venv
```

```
[(.venv) → google git:(knowledge) orchestrate env activate .venv

[Please enter WXO API key:
[WARNING] - Using IBM IAM Auth Type. If this is incorrect please use the '--type' flag to explicitly choose one of 'mcsp', 'mcsp_v2' or 'cpd'
[INFO] - Environment '.venv' is now active
```

6. Create connection by running create_connection.bash

bash setup_connection.sh

```
[(.venv) → google git:(knowledge) bash setup_connection.sh

[INFO] - Creating connection 'gg_creds'

[INFO] - Successfully created connection 'gg_creds'

[INFO] - Creating configuration for connection 'gg_creds' in the 'draft' environment

[INFO] - Configuration successfully created for 'draft' environment of connection 'gg_creds'.

[INFO] - Creating configuration for connection 'gg_creds' in the 'live' environment

[INFO] - Configuration successfully created for 'live' environment of connection 'gg_creds'.

[INFO] - Setting credentials for environment 'draft' environment of connection 'gg_creds'

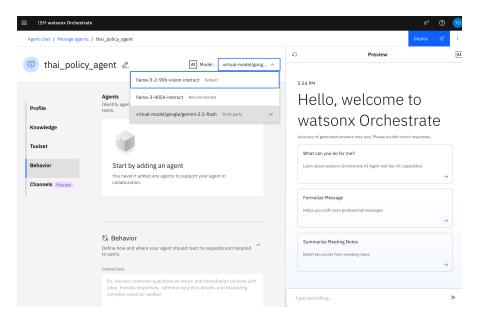
[INFO] - Setting credentials for environment 'live' on connection 'gg_creds'

[INFO] - Credentials successfully set for 'live' environment of connection 'gg_creds'
```

7. Add model using add add-model.bash

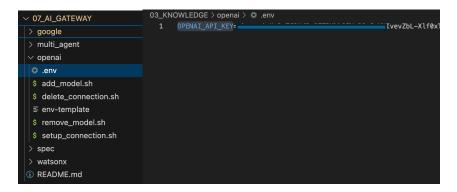
```
bash add_model.sh
```

8. After successfully add the connection, the model will show as below. Choose gemeni model



Add Openai model

- 9. Cd in to 03_KNOWLEDGE/openai Folder
- 10. Add .env file in google folder
- 11. In .env file, add the OPENAL APL KEY
 - To optain OpenAI API go to this link



12. Activated virtual env you hae created

```
orchestrate env activate .venv
```

```
[(.venv) → google git:(knowledge) orchestrate env activate .venv

[Please enter WXO API key:
[WARNING] - Using IBM IAM Auth Type. If this is incorrect please use the '--type' flag to explicitly choose one of 'mcsp', 'mcsp_v2' or 'cpd'
[INFO] - Environment '.venv' is now active
```

13. Create connection by running create connection.bash

bash setup_connection.sh

```
[(.venv) → openai git:(knowledge) × bash setup_connection.sh
[INFO] - Creating connection 'openai_creds'
[INFO] - Successfully created connection 'openai_creds'
[INFO] - Creating configuration for connection 'openai_creds' in the 'draft' environment
[INFO] - Configuration successfully created for 'draft' environment of connection 'openai_creds'.
[INFO] - Creating configuration for connection 'openai_creds' in the 'live' environment
[INFO] - Configuration successfully created for 'live' environment of connection 'openai_creds'.
[INFO] - Setting credentials for environment 'draft' on connection 'openai_creds'
[INFO] - Credentials successfully set for 'draft' environment of connection 'openai_creds'
[INFO] - Credentials successfully set for 'live' environment of connection 'openai_creds'
```

14. Add model using add add-model.bash

bash add_model.sh

15. After successfully add the connection, the model will show as below. Choose openai model

