# Set up information, already available on GitHiub:

[Agents-Over-The-Weekend/Day 2 - Valentina/README.md at main · PacktPublishing/Agents-Over-The-Weekend](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoNy7EKhDAMANCvcawRRzdBR1FE7uZUQxtsU7nGA__eDm98XvXKHYBj9bet9xRhwf3U5baBs2dx0DsSzWb-089snsyX6CQ5wIZkISILDPhUbdMWpvhgKIEFYR37YRrreLxfZiLs&@OriginalLink=github.com)

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|  | [Agents-Over-The-Weekend/Day 2 - Valentina/README.md at main · PacktPublishing/Agents-Over-The-Weekend](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoNy7EKhDAMANCvcawRRzdBR1FE7uZUQxtsU7nGA__eDm98XvXKHYBj9bet9xRhwf3U5baBs2dx0DsSzWb-089snsyX6CQ5wIZkISILDPhUbdMWpvhgKIEFYR37YRrreLxfZiLs&@OriginalLink=github.com)  Build AI Agents over the weekend with Packt Publishing - PacktPublishing/Agents-Over-The-Weekend  github.com |

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# Below some additional pre-requisites and some useful readings.

**Python environment**

* for VS Code users: [Python environments in VS Code](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwkEKwCAMBMAfmXt_U5KAAc1KNwr-vsz0qsVHRGHeTnC_g7Ut0BRTDEpZtzpSPE98yOlZ_AE5lBUu&@OriginalLink=code.visualstudio.com)
* for Cursor users: [Cursor – Python](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoNxrENACAIALCPZPcbAgZNVIjA4PfaqT3CvAKwkhfK43oK6QLJwc1h4pZE-bMbXfcDqasSFQ%3D%3D&@OriginalLink=docs.cursor.com)
* for Google Colab users: [getting\_started.ipynb - Colab](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwsENwyAMBdCJgu-9d4BMENmuBajERuZzyPbRew2Y60OkMVhK2jJObaVG1GFF46ba0bbQudnx1XAapthpx3wOD5hE_BfJCKGbFyypGtC9XgucsF_p83F5ATleKFk%3D&@OriginalLink=colab.research.google.com" \o "https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwsENwyAMBdCJgu-9d4BMENmuBajERuZzyPbRew2Y60OkMVhK2jJObaVG1GFF46ba0bbQudnx1XAapthpx3wOD5hE_BfJCKGbFyypGtC9XgucsF_p83F5ATleKFk%3D&@OriginalLink=colab.research.google.com" \t "_blank)
* for PyCharm users: [Create and edit Jupyter notebooks | PyCharm Documentation](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwkESgCAIAMDHdFbu_UaNAlNhhMbx980uuaudAGutWNHzTDwsFulA2BR0F0qzA17sPJ5QP92OMwxxzCJvuLmhRfLejh9CbByw&@OriginalLink=www.jetbrains.com)

**Large Language Model**

For this demonstration, we will need a Chat Model and an Embedding model. I will be using, respectively, Azure OpenAI GPT-4o and Text-Embedding-Large-3. Below some provides you can use, depending on your preferences:

* Azure OpenAI. [Quickstart - Get started using chat completions with Azure OpenAI in Azure AI Foundry Models - Azure OpenAI | Microsoft Learn](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNpFjTEOwjAMAF8DWxqJEQkx8BKTmtRqYhvbKSqvpxvjnU66JUL9mnNDMJ46FROXV0xFekZOwzN8h2EGSo62UUHPoshAuSwQVSO9B5XVAyzuAU-_rbg3dD9dHrErejE6or_UPRbhxPg54Nh04Dk1YjwrbRJ-U5Nq0DtxTQ24DqiYPMZM8gOkTEKp&@OriginalLink=learn.microsoft.com" \o "https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNpFjTEOwjAMAF8DWxqJEQkx8BKTmtRqYhvbKSqvpxvjnU66JUL9mnNDMJ46FROXV0xFekZOwzN8h2EGSo62UUHPoshAuSwQVSO9B5XVAyzuAU-_rbg3dD9dHrErejE6or_UPRbhxPg54Nh04Dk1YjwrbRJ-U5Nq0DtxTQ24DqiYPMZM8gOkTEKp&@OriginalLink=learn.microsoft.com" \t "_blank)
* OpenAI. You will need to create an account and provide a payment method to access your developer API: [OpenAI Platform](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNrLKCkpKLbS1y_ISSxJyy_K1csvSM1LzNRLzs_VBwCacgp3&@OriginalLink=platform.openai.com)
* Gemini. [Gemini API  |  Google AI for Developers](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNrLKCkpKLbS10_M1EvPz0_PSdVLSS3TT0_NzczL1E0syNRPyU8uBgAASA2V&@OriginalLink=ai.google.dev)
* Hugging Face Hub (all OS models): [Models - Hugging Face](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNrLKCkpKLbS188oTU_PzEtPS0xO1UvO18_NT0nNKQYAo9cK9w%3D%3D&@OriginalLink=huggingface.co)
* Anthropic: [Client SDKs - Anthropic](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwtEJACAIBcCJ6v23jWiQVCrp_sTdqoocgDhnJ6v1PJQ7-8U0UCj46LRqKTs_gUEQ0w%3D%3D&@OriginalLink=docs.anthropic.com)

Note that the code will be tailored for Azure OpenAI and OpenAI clients. If you are using other model's providers, I recommend you go through the LangChain's integration page for that specific provider. For example:

* Hugging Face. [Hugging Face | 🦜️🔗 LangChain](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwmEOgCAIBtAb-bV-dhtGimwKTqit27f3euaKC1hfdrcyyIQ7qRX2ifcoJ27ngFpW2ZTqFliDsvmegf6IqEkjrvgBC0Eb3g%3D%3D&@OriginalLink=python.langchain.com)
* Anthropic. [AnthropicLLM | 🦜️🔗 LangChain](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwlEKgEAIBcAb-aLPbiMWq-DqskrQ7WNGu1ddwPpaM8g5hihbkOTEe9CJO6Vg0c_Y3JZRcJ8FjtadywQ_TawZDg%3D%3D&@OriginalLink=python.langchain.com" \o "https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwlEKgEAIBcAb-aLPbiMWq-DqskrQ7WNGu1ddwPpaM8g5hihbkOTEe9CJO6Vg0c_Y3JZRcJ8FjtadywQ_TawZDg%3D%3D&@OriginalLink=python.langchain.com" \t "_blank)

You can find all integrations here-->[LLMs | 🦜️🔗 LangChain](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwlEKgEAIBcAb-aLPbiMWq-DqkhLs7WNGu1ddwNqtGeQcQ5QtSHLiO-jEnVKw6Ge83JZRcJ-FH2PQFRc%3D&@OriginalLink=python.langchain.com)

**Useful Pre-reading**

* Getting started with LangChain. [Introduction | 🦜️🔗 LangChain](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNoFwkEKwCAQA8AfmXt_Iyt0F2oiNT309zKT9toXsH6n2J7OO7IXW2hiKDaKfjW-cIk4rgsSBg%3D%3D&@OriginalLink=python.langchain.com)
* Getting started with LangSmith. [Get started with LangSmith | 🦜️🛠️ LangSmith](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNrLKCkpKLbS10_JTy7WK87NLMnQy0nMS0_OSMzM00vOz9UHANGWDDc%3D&@OriginalLink=docs.smith.langchain.com)
* Streamlit (optional, in case you are interested in UI development). [Streamlit • A faster way to build and share data apps](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNrLKCkpKLbS1y8uKUpNzM3JLNHLzNcHAFhdB9Y%3D&@OriginalLink=streamlit.io" \o "https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNrLKCkpKLbS1y8uKUpNzM3JLNHLzNcHAFhdB9Y%3D&@OriginalLink=streamlit.io" \t "_blank)
* Getting Started with LangGraph (optional. Even though we will mainly focus one LangChain, many agentic components are now being handled at langgraph level, even in single agents scenario. Henceforth, it is a good practice to start familiarizing with LangGraph concepts). [Overview](https://links.uk.defend.egress.com/Warning?crId=6857ac530e3b5340c02858b9&Domain=packt.com&Threat=eNpzrShJLcpLzAEADmkDRA%3D%3D&Lang=en&Base64Url=eNpFyEEKwCAMBMAXae79TRpKNlBi0Ij4-0IvznGQGeMietlVwOaFraol5l2t_a2dAyTN5YkctLDL6Q8K-xgn&@OriginalLink=langchain-ai.github.io)