**🤖 Generative AI – Prompt Lab using IBM Watsonx.ai**

**📌 Project Summary**

This assignment explored IBM’s **Watsonx.ai Prompt Lab**, where foundation models (like large language models) are used to generate AI responses from natural language prompts. The task introduced the concept of **prompt engineering** and document-based AI querying using IBM’s enterprise GenAI platform.

**🧠 Objective**

To understand how generative AI models can be guided using different prompt styles by:

* Interacting with foundation models
* Crafting prompts for text generation and question-answering
* Uploading and querying documents in natural language

**🔧 Tools & Technologies Used**

* **IBM Watsonx.ai Prompt Lab**
* Foundation models (LLMs) hosted on IBM Cloud
* Chat and freeform prompt interfaces
* Document-based AI assistant interface

**🗂️ Workflow Summary**

1. Created a new Watsonx.ai project and linked runtime services
2. Used **freeform prompts** to interact with the language model
3. Used **chat mode** to simulate dialog-based AI assistants
4. Uploaded documents and queried them using natural language
5. Interpreted outputs to evaluate the model’s understanding

**✅ Outcome**

* Learned the basics of **prompt engineering**
* Explored use cases of LLMs in business environments
* Interacted with GenAI to handle document-based tasks
* Gained exposure to real-world **enterprise-grade AI tools** used in AI assistants and copilots

**📸 Screenshots**





