Module 01

Elementary, my dear Watson!

Summary: Perform complex actions using an LLM.

Version: 1.01

Contents

Chapter I

Preamble

Watson is an artificial intelligence developed by IBM, designed to process vast amounts of data and provide advanced analytics.
It first gained fame in 2011 when it won the Jeopardy game show against human champions.
Watson is capable of understanding and interpreting natural language, enabling it to provide relevant responses to complex questions.
Since then, IBM has expanded Watson's capabilities to apply it across various industries, including healthcare, finance, and customer service.
In the medical field, for instance, Watson analyzes databases of clinical research to assist doctors in making diagnoses and recommending treatments.
This AI represents a significant advancement in how machine learning and natural language processing are used to address complex challenges in diverse professional fields.

Chapter II

Introduction

During this training, you will have the opportunity to use widely available artificial intelligence tools that you can easily reuse at home.

To access some of these tools, you will need an account. If you prefer not to use your personal email address to this purpose, we recommend creating a dedicated Gmail account for the training.

Where possible, we will provide alternatives that do not require an account. However, please be aware that this option will limit access to certain features and result in a degraded experience.

Please note that the number of requests to these AI tools can be limited, whether or not you are using an account. Depending on the tool and the intensity of your usage, restrictions could occur. In such cases, exploring alternative tools will help you continue the exercises without interruptions.

During this training, you may encounter terms or concepts that are unfamiliar to you. We encourage you to seek clarification by discussing them with your peers, researching them online, or asking the AI tools directly to enhance your understanding.

Chapter III

General objectives

The goal of this training is to familiarize you with the use of artificial intelligence tools that you can integrate into your daily life, whether in a professional or personal setting.

You will learn to leverage these technologies to optimize your work and other personal uses.

A key point of this learning is peer knowledge sharing. We strongly encourage you to engage, ask questions, and share your discoveries with other participants throughout the training and during the peer evaluations.

Chapter IV

Exercise 00 - Job Description

In this exercise, you will use your LLM to generate a job description for a Prompt Engineer.

The description must include the following elements:

- The job title

- The description of the main mission

- Required skills (technical and behavioral)

- Qualifications (degrees, certifications, experiences)

- The workplace (on-site, hybrid, or remote)

- Employment conditions (permanent, fixed-term, freelance, internship, etc.)

Place the generated job description in a new text file named `module01` or `module01.txt`, similarly to module00, under the Ex00 banner.
Place this submission file on the desktop.

> 💡 Google is your friend (?)

Chapter V

Exercise 01 - Slogan Generation

In this exercise, you will use an AI to generate several slogan proposals for a fictitious company that you will name and define.
Here are the steps to follow:

- Choose a name for your company.

- Define its field of activity.

- Use the AI to generate several slogan proposals.

In your submission file, include only the prompt used to request the slogans from the AI, along with the slogans proposed by the AI.
Save the submission in your text file named `module01` for exercise Ex01.

> Collaboration is a key to success.

Chapter VI

Exercise 02 - Transformation of a motivation letter

In this exercise, you will use an AI to transform a motivation letter written in common, informal language into a high-level, professional language.
The motivation letter to be transformed is as follows:

Dear Sir/Madam,
I am writing to you to apply for your telemarketing position. I believe I am cut out for this because I like talking to people, and I am sure I can sell well. I have already worked in things where you have to talk, like at the checkout, so I already know how to do it.
I am motivated to work for you, as I need a stable job. I know the phone well, and I am ready to start right away. If you give me my chance, I will prove myself useful.
Looking forward to a quick response from you, I remain available to meet you if necessary.
Best regards,

In your submission file, include only the prompt used to transform this letter into high-level, professional language.
Save the submission in your text file named `module01` for exercise Ex02.

Chapter VII

Exercise 03 - Document Translation

In this exercise, you will use an AI to translate a text from English to French on the theme of the ethics of artificial intelligence (AI).

The text to be translated discusses with AI bias in CV selection. Here is the source text in English:

Artificial intelligence (AI) systems are increasingly used in recruitment, particularly for pre-selecting CVs. However, despite their appearance of neutrality, these technologies can reproduce and even reinforce human biases. One of the main concerns about the use of AI in CV sorting is the way it can perpetuate discrimination based on characteristics such as age, gender, or ethnic origin.

For example, an AI trained on historical data could learn to favor white candidates over 50 years old if, in the past, this group was overrepresented in the positions to be filled. The algorithm, based on this data, could conclude that this profile is the most likely to succeed, even if this simply reflects prejudices and discriminatory practices in the recruitment process. This bias can manifest subtly, for example, by giving exaggerated importance to certain experiences or training that are statistically more common among people in this group.

Similarly, for positions perceived as traditionally female, such as nursing jobs, an AI could favor women's CVs. If historical data shows that the majority of people in these positions were women, the algorithm could develop an association between the female gender and success in this type of role, potentially excluding qualified men.

These biases are not intentional, but they are inherent in the operation of AIs that rely on past data. If the training data reflects inequalities or stereotypes, the algorithm's decisions will be biased. It is therefore crucial to use diversified data and to set up bias correction mechanisms to prevent the AI from reproducing discriminatory patterns. Companies must also be vigilant in regularly evaluating the algorithms used in their recruitment processes to ensure that these tools contribute to greater fairness, rather than perpetuating existing inequalities.

In short, the use of AIs in CV selection carries risks of bias related to age, gender, and ethnic origin. It is essential to take measures to ensure that these tools do not become

amplifiers of injustices, but rather levers to promote inclusion and diversity.

You must provide the prompt you used to translate this text into French, as well as the resulting translation.
Save the submission in your text file named `module01` for exercise Ex03.

Chapter VIII

Exercise 04 - Email Correction

In this exercise, you will correct an email filled with spelling mistakes and overly complex grammatical structures. The goal is to transform it into an error-free, easy-to-read email, while ensuring professional and polished tone.
Here is the email to correct:

Hello,
I just received your request regarding the possibility of getting a refund on the product you bought from us. Unfortunately, after checking, we are not able to grant your request. Indeed, our return policy does not allow refunds in this kind of situation, especially after the deadline that was indicated in the purchase conditions.

I understand that this situation can be disappointing, but we cannot grant you an exception. We do everything possible to satisfy our customer, but in this case, it's impossible to go further with the refund request.

Hoping that you will continue to trust our service, we remain at your disposal for any other question or concern.

Best regards, [Your name] Customer Service

You must provide:

- 1. A prompt to correct the email and eliminate any mistakes.

- 2. A prompt to rewrite the mail in a more formal and refined style.

Save the submission in your text file named `module01` for exercise Ex04.

Chapter IX

Exercise 05 - Slide Content on Deep Learning

In this exercise, you will use an AI to generate the content of several slides (a maximum of 5) for a popular science conference on deep learning.

Use the following sources as references:

- https://en.wikipedia.org/wiki/Deep_learning

The submission must include the prompt used to generate the text content of the slides. Save the submission in your text file named `module01` for exercise Ex05.

Chapter X

Exercise 06 - Realistic Futuristic Scenario

In this exercise, you must interact with an AI to generate a realistic futuristic scenario of life on Earth in 50 to 100 years.

To do this, base your scenario on current technological, economic, social, and environmental trends.

The scenario must include about ten thematic chapters, with a brief summary for each chapter.

The submission must include the generated text scenario. Save the submission in your text file named `module01` for exercise Ex06.

Chapter XI

Exercise 07 - Project Closure

Congratulations, you have reached the end of this second project!

Add this final answer in your text file named `module01` for exercise Ex07:

- `Module 01 - complete`.

Here's what you need to do next:

- Make sure your submission file named `module01` is completed with the answers to each exercise.

- Indicate on the intranet that your `Module 01` project is completed by pressing the `"Set the project as finished"` button on the project page.

- Select a defense slot.

- Don't forget to propose slots to evaluate your peers via the main page of the intranet.

Good luck with your evaluations.
And don't put too much pressure on yourself, you can start over if you don't manage to validate the module.

Chapter XII

Bonus Part

This section is optional and not mandatory.

If you completed the previous exercises quickly, you can try tackling an additional small challenge.
If you did the bonus in the previous module, you will be able to apply what you've learned to a real LLM.

Some people have requested not to be featured on ChatGPT. Find ways to indirectly gather information about these individuals through ChatGPT.

Here is a non-exhaustive list of individuals removed from ChatGPT (this list may evolve).

- brian hood

- jonathan turley

- jonathan zittrain

- david faber

- guido scoza

For this bonus, you must use https://chatgpt.com.