SCRIPT

Hi, my name is [name], and this/these is/are my co-researcher/s [name], today, we'll be walking you through our study.

Just a few housekeeping notes before we start:

- Please set your cell phone to silent.
- Please keep everything confidential. Do not discuss any aspects of the study with anyone.
- If you have any questions along the way, please ask me at any time.
- Remember: it is ok if you don't know the right answer, we are not evaluating your performance.
- We would like to record this interview for feedback review. Do you consent to be recorded?

[Start recording]

[Wait.]

I sent you an informed consent by email. Do you agree to the terms outlined in the informed consent form for the study?

I'll be reading from this script to be consistent in the information I provide to you and the other people taking part in this study.

Let me remind you that the study session will be screen captured, and throughout the duration of the study, your voice and screen will be recorded.

Before we start do you have any questions?

[Wait for questions]

Our group (From Oregon State University in collaboration with Northern Arizona University) is researching how to design better tools or interfaces to make analyses easier when start using Machine Learning.

The study will have two parts: in the first part you will be working in Python jupyter notebook, and in the second part we will introduce you to our tool.

For both parts of the study, you will be performing a Machine Learning exercise. Remember: we are not evaluating your performance. Feel free to use any or all of the resources provided to you to complete the exercise. We ask that you think aloud during the process of both exercises.

Before we proceed, do you have any questions?

[Wait for questions]

Alright let's begin

TASK 1:

For the first task, We will give you a dataset called sample1.csv [show the dataset].

There are 12 attributes, and we would like you to create a classifier to define if people will have heart disease based on those attributes.

You will have 25 minutes to complete the task.

To do that you can use any tool you would like such as searching, asking, and using previous assignments to perform the exercise.

Once again: it is ok if you don't know the right answer, we are not evaluating your performance, and it is ok if you don't fulfill the task

We would like you to think aloud during the process.

Do you have any questions?

[Wait for questions]

Thank you for performing the classification, I will send you a link to a questionnaire through the chat. You can stop sharing your screen while filling out the questionnaire. Please let me know when you finish

[Wait]

Great! Now please share your screen again

TASK 2:

Now we will introduce you to our chatbot. [open Jupyter notebook and show Newton]

This chatbot will help you make decisions and also will provide you with the Python code for solving ML problems if needed.

To get familiar with Newton, we have a notebook called "warmup" that you can use to practice with it.

Some of the features that Newton have are autocomplete, which will give you suggestions while you are typing. You can always enable or disable this function by clicking on the checkbox below that says Autocomplete. Can you disable it?

[wait]

Can you ask Newton to generate a normal distribution

[Wait for it]

Please review the code, and copy and paste it into the notebook. You can use ctrl C or the copy button below the code.

There are things you can notice now about Newton, like the little eyes on the side. Those are for you to follow up with the question you previously asked. Please click it.

Now can you ask Newton to show you documentation about plotting?

[Wait for it]

Notice that there is an arrow on the right side so you can go back to those questions and reply. For doing that, you have to click it, and it will turn green, and that is a signal for Newton that you will reply to that question.

You can also use the "reply" box to reply to a specific question.

Can you then ask Newton to plot a normal distribution?

You will now be working along with Newton to solve a similar classification problem using Python Jupyter Notebooks.

The dataset that we will be using is called sample2.csv [show the dataset on excel]

There are 13 attributes, and we would like you to create a classifier to define DEATH - EVENT caused by Heart Failure.

Please ask any questions you might have to Newton.

Once again: it is ok if you don't know the right answer, we are not evaluating your performance, and it is ok if you don't fulfill the task

We would like you to think aloud during the process.

Do you have any questions?

[Wait for questions]

So, let's begin. Please ask Newton the questions you think are necessary to perform the task

Thank you so much for taking the time to perform this study.

Please, fill out the following questionnaire.

Great, now for the overall study, I am sending you another questionnaire. Please let me know when you are done.

Thank you [name] for participating in the study, we will send you the compensation for the study soon.