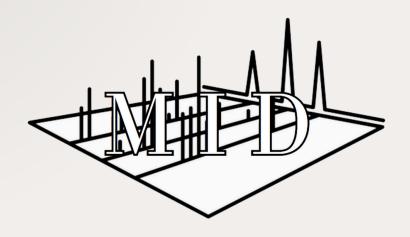
Molecule_ID based MSMS fingerprint Similarity



USER MANUAL

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Intended Use

The Molecule_ID software, based on MSMS fingerprint similarity, aims primarily to calculate the similarity between new MS2 spectra and a pre-recorded reference database.

By comparing these spectra, the software determines the most similar spectrum from the database.

Additionally, Molecule_ID also allows the display of the newly imported spectrum, thus providing a clear and precise visualization of the analyzed spectral data.

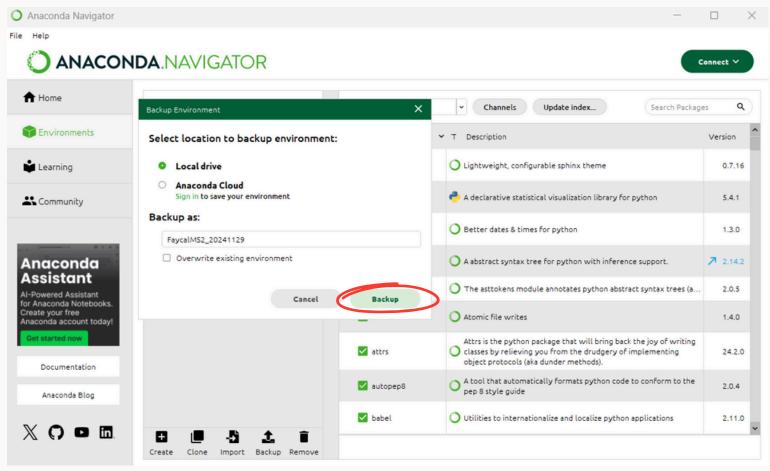
Prerequisites

1.Importing the Anaconda Environment:

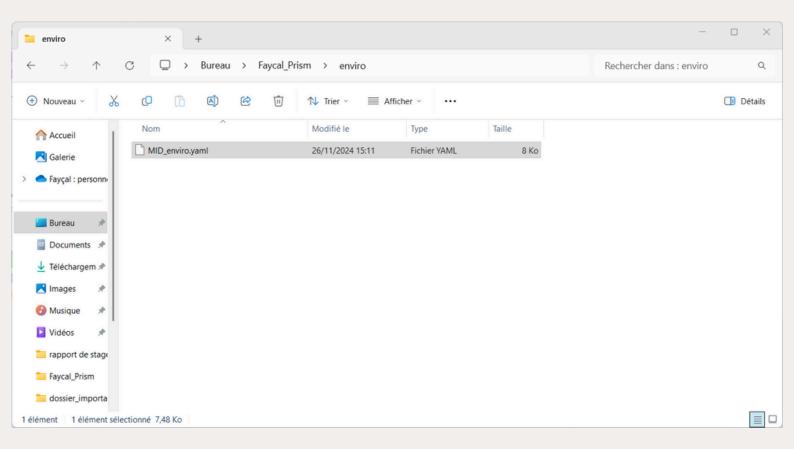
Open Anaconda Navigator.

In the main menu, click on "Environments" to access environment management.

Then, go to "Backup Local Drive" to access local backups.



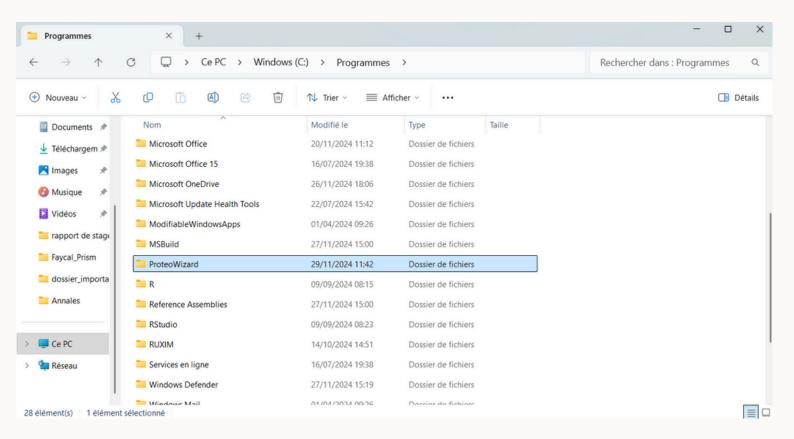
- Locate the folder named "enviro" which contains the saved environments.
- In this folder, find the file "MID_enviro.yaml" and import it by following the on-screen instructions.



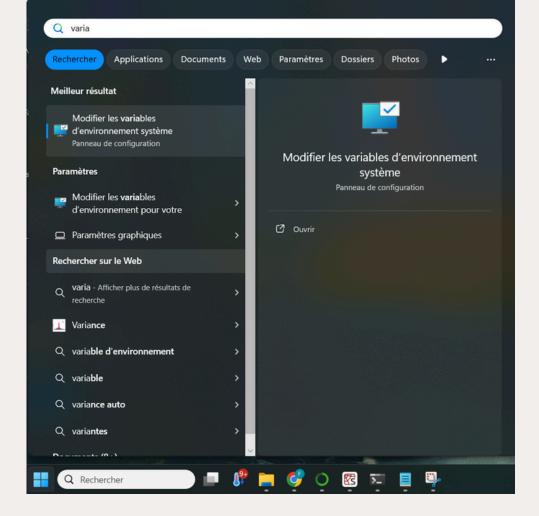
 Once the import is complete, the environment will be ready for use and execution.

2.Installation of MSconvert:

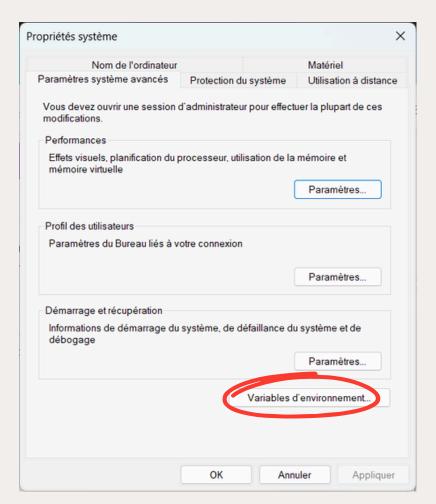
- In the provided folder, locate the "ProteoWizard" folder.
- Copy this folder and paste it into the "Programs" directory on your hard drive (typically located under "C:\Program Files" depending on your system).



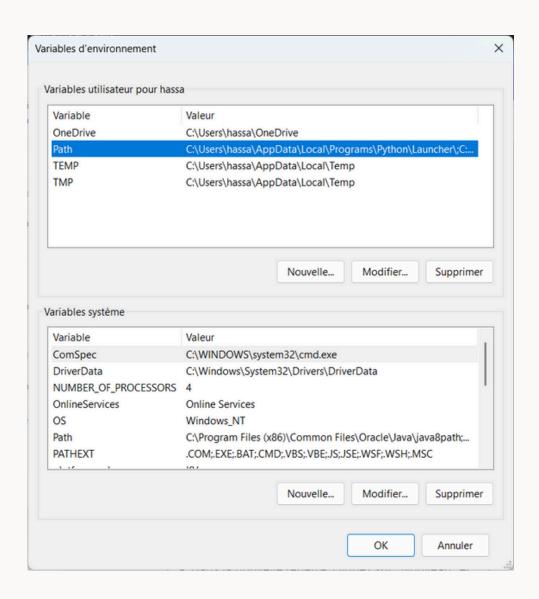
 Then, open the Start menu and search for "Edit the system environment variables.



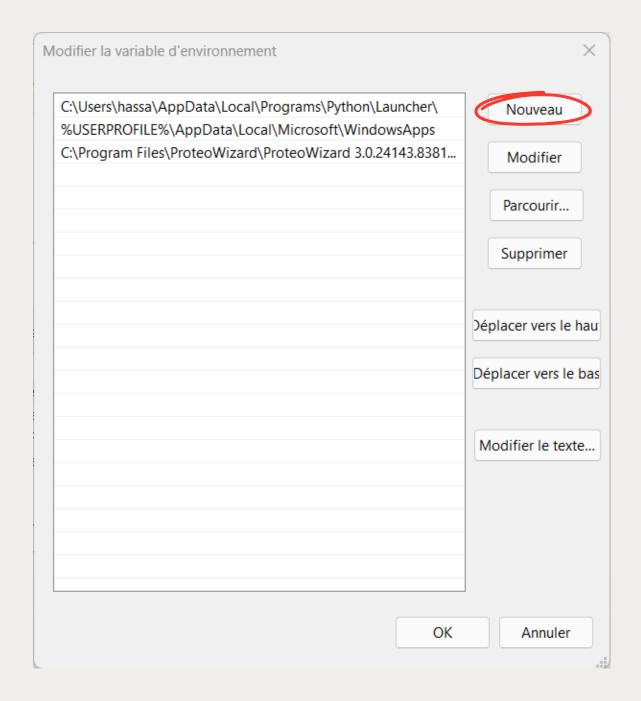
 Click on "Environment Variables" to open the Environment Variables configuration window.



 In the "System variables" section, find the "Path" variable and select it, then click on "Edit".

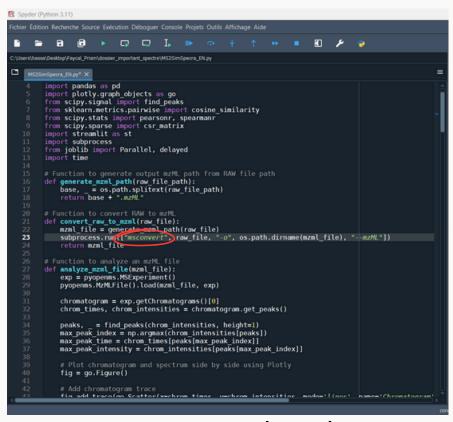


 In the new window, click on "New" and paste the full path of the "ProteoWizard 3.0.24143.8381ed5 64-bit" folder (for example, "C:\Program Files\ProteoWizard 3.0.24143.8381ed5 64-bit").



Confirm the changes and close the configuration windows.

 Or you can go into the script and provide the path to the \msconvert file. (It's up to you to choose which method you prefer, but the first method avoids having to provide the path each time).

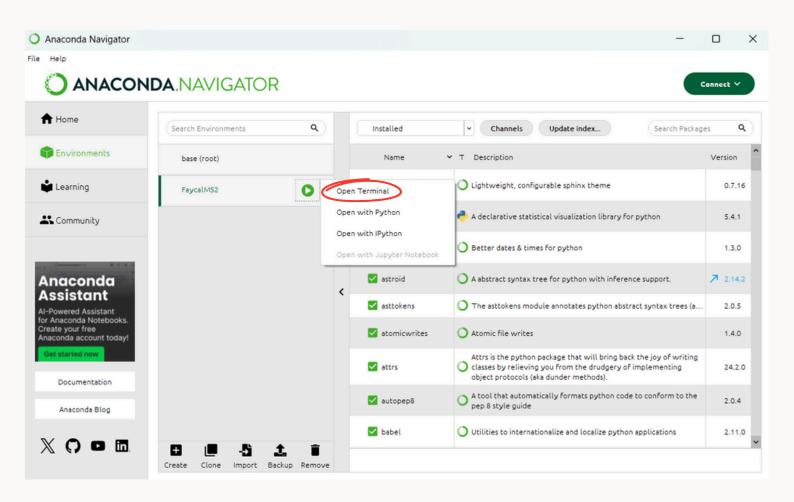


 Once these steps are completed, MSconvert will be correctly installed and your software will be operational.

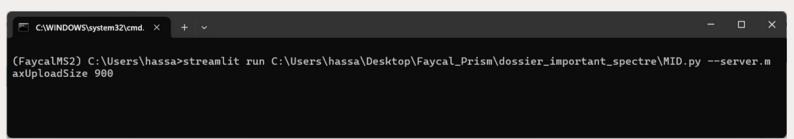
```
| Import os | import os | import os | import os | import numpy as npd | import assignment of numpy ass
```

Software Usage

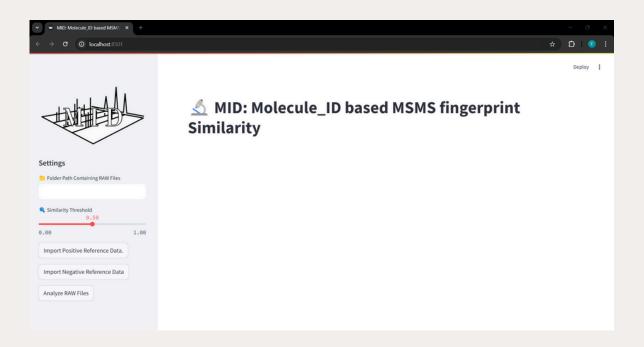
- To use the software, start by opening Anaconda Navigator.
- In Anaconda Navigator, select the environment you previously imported.
- Open the command terminal by clicking on "Open Terminal" in the selected environment.



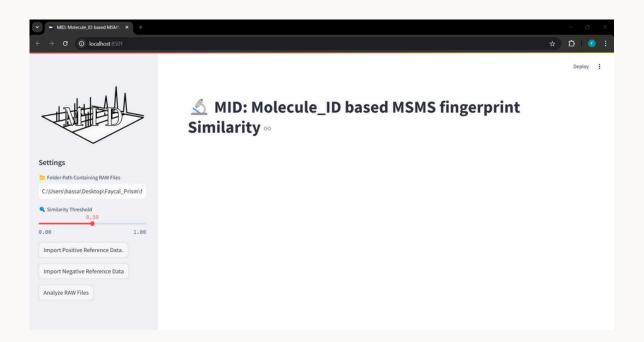
- In the terminal, run the following command to launch Streamlit:
- streamlit run path_to_MID.py -server.maxUploadSize 900
- Replace "path_to_MID.py" with the full path to the MID.py file.



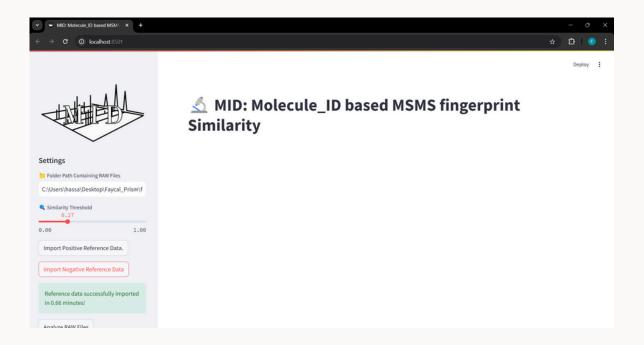
 Once the command is executed, a new Google page will open with the software interface.



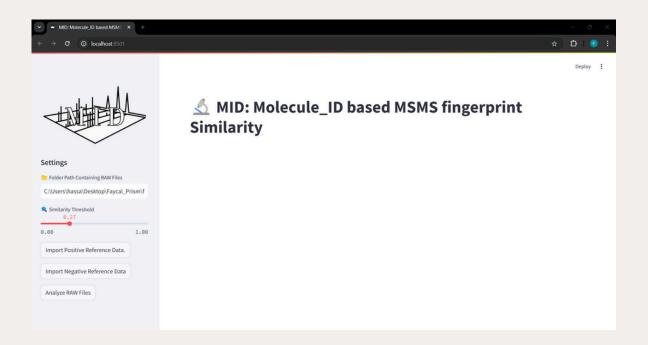
 In the interface, specify the path to the file that contains the raw folder to be imported.



 Next, specify the Similarity Threshold you wish to use. This threshold should be between 0 and 1.



 Import the positive or negative files depending on the file you have imported.



 Finally, click on "Analyze Raw files" to start the analysis. The software will then begin processing the files and displaying the results.

