

INSTRUCTIONS FOR NeticaPy 0.72 – The Python version of Netica API

Getting Started:

1. Unzip file NeticaPy_Win.zip. The resulting NeticaPy directory can be placed anywhere.
2. Look in the resulting 'NeticaPy/doc' directory for instructions.

Downloading Python:

Skip these steps if you are already running the latest version of Python.

*** NeticaPy will only work with Python 3.6.x (or later).

If you have already installed Python, check the version with the command 'python --version'

Two methods for downloading and running python:

1. Anaconda (recommended):

Instructions for downloading and installing Anaconda, as well as links to download the most recent version, can be found here: <https://conda.io/docs/user-guide/install/download.html>

Follow the instructions to download and install. No packages besides those contained in the Python standard library are needed to run NeticaPy

Jupyter Notebook and the Spyder IDE are good options for developing and running scripts, and can be launched from Anaconda

2. Vanilla Python:

Download Python 3.6.x for Windows from python.org and follow instructions on installation

Ensure you check the box to add Python to the PATH (you can check that Python is installed/in path by typing 'python --version' into the command line)

Running Examples:

Gain a basic understanding of the NeticaPy syntax by reading, understanding, and running the examples contained in NeticaPy/examples.

To run the first example, bring up a Command Prompt (e.g., by Win+R and type 'cmd'). Then use 'cd' to navigate to the examples directory (e.g., 'cd C:\Netica\NeticaPy\examples'). Finally, run the example by entering 'python Demo.py' (or just 'Demo.py'), and observe the printout. If it prints a final probability of Tuberculosis as 0.05, everything is working correctly.

The next three examples should be run in the order: BuildNet, SimulateCases, and LearnCPTs.

Results will appear in the 'Data Files' folder, and each example uses the output of the previous example (hence, the need to run them in order).

Each function available in NeticaPy matches an equivalent function of the Netica-C API. To understand how the function works, you can find the Netica-C documentation at: <http://www.norsys.com/onLineAPIManual/index.html>

This is an early version of NeticaPy, and doesn't have the less commonly used Netica API functions. If you need other functions, you can add them yourself in NeticaPy/src/neticap.py using the existing functions as a guide, or contact Norsys (sophie@norsys.com) and we will add it for you.

In addition, please contact us if you have any questions, problems or suggestions. NeticaPy is still under development, and there may be changes made before the full release.