Readme - Installation guide of Vasor

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This software was written in Python 3.8.

Make sure that you have installed all libraries (with version number) necessary for Vasor. These are:

numpy (1.21.2)

pandas (1.3.3)

scikit-learn (1.0)

imbalanced-learn (0.8.1)

bio (1.2.6)

biopython (1.79)

matplotlib (3.4.2)

seaborn (0.11.2)

xgboost (1.4.2)

scipy (1.7.1)

For first-time-users of python programs, we recommend installing Anaconda Navigator. Packages and libraries can be managed via the tab “Environments” on the left hand side of the Anaconda Navigator home screen. To install missing libraries, show all possible libraries by selecting “All” in the dropdown menu showing by default “Installed” libraries and search for the missing libraries via the search box. Mark all missing libraries and click “Apply” on the bottom right side to download.

To view, test and execute the code, we recommend using the Spyder program (installed within Anaconda Navigator). Open Spyder, then open the code (Vasor.py) for Vasor (either by drag&drop or via File ->Open…). Click the run button to run the code.

Vasor will automatically run through the code and generate the respective images in the folder “images” as well as tables in the repository (“repository/data” folder). To check that everything is working correctly, users are advised to compare the results (within system-specific rounding errors) of the local installed program and the pre-computed values from Vasor in the file “Installation\_Test.csv”, which will be automatically generated by the program.