

The COVIDiag is based on ensemble learning, was trained by 488 patients (244 COVID-19 and 244 non-CoVID-19), was tested by 124 patients (62 COVID-19 and 62 non-CoVID-19) and was validated by 450 patients from five different countries (Argentina, Turkey, Iran, Italy, and The Netherlands).

Install the COVIDiag software and run it. You need **MATLAB Runtime 2017a** to run the COVIDiag software. The below figure shows the environment of the COVIDiag software. Descriptions of the steps of using the software are as follows:

- 1: Write the name, ID of the patient and date.
- 2: Determine the CT findings of the patient. Note that all the CT findings should be filled.
- 3: click on “Check” icon and wait for the result. The result will be appeared in the “Result” icon.
- 4: You can save the name, ID, date, CT findings and the result by clicking on “Record” button. Before that, you should define a directory path that the output should be saved in.
- 5: Click on “Clear” and diagnose the next patient.

