**LAB04 DoS detection using Scikit-learn in Python**

|  |  |
| --- | --- |
| Class |  |
| Student ID |  |
| Name |  |
| Email address |  |
| Class |  |
| Browser |  |

1. Test environment setting

|  |  |  |
| --- | --- | --- |
|  | Attacker | Target |
| OS |  |  |
| IP address |  |  |
| Attacking type |  |  |
| Attacking program |  |  |
| Detecting program |  |  |
| Blocking program |  |  |
| Analyzing program |  |  |

**Exercise as far as you do**

**Exercise [Step1] Install Machine learning libraries in Python**

**1. Install Python**

**2. Set up a virtual environment (optional)**

**Source:**

If you use Anaconda, you can create a virtual environment using Anaconda

If you use pip, you can create a virtual environment using the venv module

**3. Scikit-Learn installation**

**A. Installation via Anaconda**

**B. Installing via pip**

If you don't have NumPy and SciPy installed, you may need to install them separately. You can install them together

**4. Verify the installation**

**5. Install additional packages (optional)**

**Exercise [Step2 model 1] Code DoS attack detection program using Scikit-learn or**

**Exercise [Step2 model 2] Code Syn flooding detection program using Scikit-learn**

1. Clone the example Python source code from reference site
2. Compile the program and find out logic error

\* Do not handle data, because we did not call or connect data yet

1. If you find error fix it, if not display the error message
2. Explain the program and logics as far as you do