environment

December 6, 2024

```
[1]: from __future__ import print_function
     from packaging.version import parse as Version
     from platform import python_version
     OK = ' \times 1b[42m[OK] \times 1b[Om']
     FAIL = "\x1b[41m[FAIL]\x1b[0m"]
     try:
         import importlib
     except ImportError:
         print(FAIL, "Python version 3.12 is required,"
                     " but %s is installed." % sys.version)
     def import_version(pkg, min_ver, fail_msg=""):
         mod = None
         try:
             mod = importlib.import_module(pkg)
             if pkg in {'PIL'}:
                 ver = mod.VERSION
             else:
                 ver = mod.__version__
             if Version(ver) == Version(min_ver):
                 print(OK, "%s version %s is installed."
                       % (lib, min_ver))
             else:
                 print(FAIL, "%s version %s is required, but %s installed."
                       % (lib, min_ver, ver))
         except ImportError:
             print(FAIL, '%s not installed. %s' % (pkg, fail_msg))
         return mod
     # first check the python version
     pyversion = Version(python_version())
     if pyversion >= Version("3.12.5"):
         print(OK, "Python version is %s" % pyversion)
```

OK Python version is 3.12.5

```
[ OK ] numpy version 1.26.4 is installed.
[ OK ] matplotlib version 3.9.2 is installed.
[ OK ] sklearn version 1.5.1 is installed.
[ OK ] pandas version 2.2.2 is installed.
[ OK ] xgboost version 2.1.1 is installed.
[ OK ] shap version 0.45.1 is installed.
[ OK ] plotly version 5.23.0 is installed.
```