**Working Guide to publish package to PyPI**

**(Make sure to create package on C drive)**

1. **I had three files “filter\_response.py”, “Send\_data\_to\_bus.py”, and “Receive\_data\_from\_bus.py” to be published**

**# Project structure :-**

**Your project name/**

**│**

**├── Your project name/**

**│ ├── \_\_init\_\_.py**

**│ ├── file1.py**

**│ ├── file2.py**

**│ ├── file3.py**

**│**

**├── README.md**

**├── LICENSE**

**├── pyproject.toml**

**2. Create \_\_init\_\_.py**

**Inside the nested “your project name” folder directory, I created an \_\_init\_\_.py file. This can be an empty file or you can import the functions from all the files you have created :**

**from .file1 import function1**

**from .file2 import function2**

1. **Create pyproject.toml :-**

**##############################################################################**

**[build-system]**

**requires = ["setuptools>=61.0"]**

**build-backend = "setuptools.build\_meta"**

**[project]**

**name = "Your\_Project\_Name"**

**version = "0.0.1"**

**authors = [**

**{ name="Your name", email="your\_email@gmail.com" },**

**]**

**description = "Short description"**

**readme = "README.md"**

**requires-python = ">=3.8"**

**classifiers = [**

**"Programming Language :: Python :: 3",**

**"License :: OSI Approved :: MIT License",**

**"Operating System :: OS Independent",**

**]**

**[project.urls]**

**Homepage = "https://github.com/yourusername/"**

**Issues = "https://github.com/yourusername/issues"**

**##############################################################################**

1. **Create a README.md :-**

**# sanyam\_algosdk\_2315**

**A package for sending and receiving data via bus and filtering responses.**

1. **Create a License :-**

**MIT License**

**Copyright (c) [year] [fullname]**

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1. **Build the package using the following commands (apply this command in the same directory where the pyproject.toml file is located )**
2. **Install Build Tools: py -m pip install --upgrade build**
3. **Generate Distribution Archives: - py -m build (This will generate .tar.gz and .whl files in the dist folder.)**
4. **Upload Your Package** 
   1. **Install Twine :- py -m pip install --upgrade twine**
   2. **Upload to PyPI :- py -m twine upload dist/\***

**# Note :- If hitting the above command of upload asks for API token then make sure to create a .pypirc file in “C:\Users\”Username” ” directory with following content using “NOTEPAD” only to avoid “\n” error conflicts.**

**.pypirc :-**

**[distutils]**

**index-servers =**

**pypi**

**[pypi]**

**username = \_\_token\_\_**

**password = “your\_api\_token\_from\_pypi”**

**# Command to install package :-**

**Pip install “Package\_name”==0.0.2 ( Check for latest version)**

**# Some tips :-**

* **If you have imported the function from the package itself then it might not work and will give error.**
* **If any error is found after publishing and importing the package then Instead of deleting current project on pypi update the version of package in pyproject.toml and reiterate the steps from “build your package”**
* **If you get “same file name error “ try deleting old dist and wheel folder and again run command “py -m build”**