BUILD YOUR FIRST PYPI PACKAGE

1. **Make sure you have Python and pip installed on your system. To check the installations:**

```
python -V  # for python version (2/3)
```

```
python -m pip --version
```

2. **Create your python package.**
3. **Create LICENCE.txt file | To see MIT License open url - https://opensource.org/licenses/MIT**
4. **Create setup.py file**

```
import setuptools

setuptools.setup(
    name='<package_name>',
version='0.1',
    author="<author's name",
author_email="<author's email>",
description="<Basic desc>",
packages=setuptools.find_packages(),      classifiers=[
        "Programming Language :: Python :: 3",
        "License :: OSI Approved :: MIT License",
        "Operating System :: OS Independent",
    ],
)
```

5. **Test the package**
6. **Install the required packages:**

- **Setuptools:** Setuptools is a package development process library designed for creating and distributing Python packages.

- **Wheel**: The Wheel package provides a bdist_wheel command for setuptools. It creates .whl file which is directly installable through the pip install command. We'll then upload the same file to pypi.org.

- **Twine**: The Twine package provides a secure, authenticated, and verified connection between your system and PyPi over HTTPS.

- **Tqdm**: This is a smart progress meter used internally by Twine. 1

```
install setuptools wheel
2
```

```
pip install tqdm
3
```

pip install twine

7. **Run the command to create whl file** python setup.py bdist_wheel

8. **Register Yourself**

The Python community maintains a repository similar to npm for open source packages. If you want to make your package publicly accessible you can upload it on PyPi. So, first of all, register yourself on PyPi: https://pypi.org/account/register/.

9. **Run the command to upload package**

twine upload --repository-url https://upload.pypi.org/legacy/ dist/*

NB: use twine upload --skip-existing dist/* if you need to update your library

10. **Test the package** Pip install <packagename>