Guide: Embed Python in C# Without Python Installed

FULL GUIDE: Embedding Python in C# Without Requiring Python Installed
PART 1: Setup Embedded Python Runtime
Download Embedded Python ZIP
- https://www.python.org/ftp/python/3.9.13/python-3.9.13-embed-amd64.zip
2. Extract to `Python_Runtime` folder in your C# project:
ConsoleApp1/
??? Python_Runtime/
??? python39.dll
??? python39pth
??? Lib/
??? DLLs/
3. Edit `python39pth` to include:
python39.zip
Lib
DLLs
import site
PART 2: Add Required Python Packages
1. Use pip locally:
pip install pandas matplotlib pillow cython
2. Copy site-packages from local Python to:

Python_Runtime/Lib/site-packages/

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```
PART 3: Convert `.py` to `.pyd` Using Cython
Example file: `my_math.py`
def add(a, b): return a + b
Create `setup.py`:
from setuptools import setup
from Cython.Build import cythonize
setup(
  name="my_math",
  ext_modules=cythonize("my_math.py", compiler_directives={"language_level": "3"})
)
Then run:
python setup.py build_ext --inplace
Output: my_math.cp39-win_amd64.pyd
PART 4: Place `.pyd` and CSV in Runtime Folder
_____
Python_Runtime/
??? my_math.cp39-win_amd64.pyd
??? reuters_fx_data.csv
??? python39.dll
??? python39._pth
??? Lib/site-packages/
??? DLLs/
```

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