Ready, Set, Deploy: Share Your Python Magic

Take Your Code from Local to Global

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Table of contents

Showcase your work

Jsing GitHub to Share Your Project	2
Setting Up a GitHub Repository	2
Example: Git Commands	2
Creating a README.md	2
Example: README.md Usage Features License	3 3 3
Creating an Executable with PyInstaller	4
Packaging Your Python Project	4
Creating setup.py	4
Jploading to PyPI	5
Example: Uploading to PyPI	5
Summary	5
Why Share Your Project? - Collaborate with others - Get feedback and contribution	ns -

Using GitHub to Share Your Project

Why Use GitHub? - Version control with Git - Share code with the world - Collaborate on projects

Setting Up a GitHub Repository

Step-by-Step Guide 1. Create a GitHub account 2. Create a new repository 3. Clone the repository to your local machine 4. Add your project files 5. Commit and push your changes

Example: Git Commands

Initialize and Push to GitHub

```
# Initialize git in your project directory
git init

# Add your files to the repository
git add .

# Commit your changes
git commit -m "Initial commit"

# Add the remote repository URL
git remote add origin https://github.com/yourusername/yourrepository.git

# Push your changes to GitHub
git push -u origin master
```

Creating a README.md

Why Include a README.md? - Provide an overview of your project - Explain how to install and use it - Highlight key features and dependencies

Example: README.md

```
# Project Title

## Overview
Brief description of your project.

## Installation
   ``bash
pip install your_project
```

Usage

```
from your_project import your_function
result = your_function()
print(result)
```

Features

- Feature 1
- Feature 2

License

MIT

```
# Using PyInstaller
**What is PyInstaller?**
- Convert Python scripts into standalone executables
- No need for users to install Python or dependencies

**Installing PyInstaller**
```bash
pip install pyinstaller
```

## Creating an Executable with PyInstaller

Simple Command to Create Executable

```
pyinstaller --onefile your_script.py
```

- Generates an executable in the dist directory
- Users can run the executable without installing Python

## **Packaging Your Python Project**

Why Package Your Project? - Make it easy to distribute - Ensure dependencies are managed - Allow others to install it easily

# Creating setup.py

Example: setup.py

## **Uploading to PyPI**

Why Upload to PyPI? - Share your project with the Python community - Make it easy to install using pip

Steps to Upload 1. Register on PyPI 2. Build your package 3. Upload using twine

# **Example: Uploading to PyPI**

### **Build and Upload Commands**

```
Install necessary tools
pip install setuptools wheel twine

Build your package
python setup.py sdist bdist_wheel

Upload to PyPI
twine upload dist/*
```

## **Summary**

- Share your project on GitHub
- Use PyInstaller to create executables
- Package and upload to PyPI for easy distribution