
pyscaffoldext-dsproject Documentation

Release unknown

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PyScaffold extension that adds a perfect structure for Data Science projects.

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1.1 pyscaffoldext-dsproject

`PyScaffold` extension tailored for *Data Science* projects. This extension is inspired by `cookiecutter-data-science` and enhanced in many ways. The main differences are that it

1. advocates a proper Python package structure that can be shipped and distributed,
2. uses a `conda` environment instead of something `virtualenv`-based and is thus more suitable for data science projects,
3. more default configurations for `Sphinx`, `py.test`, `pre-commit`, etc. to foster clean coding and best practices.

Also consider using `dvc` to version control and share your data within your team. Read [this blogpost](#) to learn how to work with JupyterLab notebooks efficiently by using a data science project structure like this.

The final directory structure looks like:

— AUTHORS.rst	<- List of developers and maintainers.
— CHANGELOG.rst	<- Changelog to keep track of new features and fixes.
— LICENSE.txt	<- License as chosen on the command-line.
— README.md	<- The top-level README for developers.
— configs	<- Directory for configurations of model & application.
— data	
— external	<- Data from third party sources.
— interim	<- Intermediate data that has been transformed.
— processed	<- The final, canonical data sets for modeling.
— raw	<- The original, immutable data dump.
— docs	<- Directory for Sphinx documentation in rst or md.
— environment.yml	<- The conda environment file for reproducibility.
— models	<- Trained and serialized models, model predictions, or model summaries.
— notebooks	<- Jupyter notebooks. Naming convention is a number (for ordering), the creator's initials and a description, e.g. `1.0-fw-initial-data-exploration`.
— references	<- Data dictionaries, manuals, and all other materials.
— reports	<- Generated analysis as HTML, PDF, LaTeX, etc.
— figures	<- Generated plots and figures for reports.
— scripts	<- Analysis and production scripts which import the actual PYTHON_PKG, e.g. train_model.
— setup.cfg	<- Declarative configuration of your project.
— setup.py	<- Use `python setup.py develop` to install for
→ development or	

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```
|                                     or create a distribution with `python setup.py bdist_
↪ wheel`.
|   └─ src
|       └─ PYTHON_PKG               <- Actual Python package where the main functionality_
↪ goes.
|   └─ tests                       <- Unit tests which can be run with `py.test`.
|   └─ .coveragerc                 <- Configuration for coverage reports of unit tests.
|   └─ .isort.cfg                  <- Configuration for git hook that sorts imports.
|   └─ .pre-commit-config.yaml     <- Configuration of pre-commit git hooks.
```

See a demonstration of the initial project structure under [dsproject-demo](#) and also check out the documentation of [PyScaffold](#) for more information.

1.1.1 Usage

Just install this package with `pip install pyscaffoldext-dsproject` and note that `putup -h` shows a new option `--dsproject`. Creating a data science project is then as easy as:

```
putup --dsproject my_ds_project
```

1.1.2 Making Changes & Contributing

This project uses [pre-commit](#), please make sure to install it before making any changes:

```
pip install pre-commit
cd pyscaffoldext-dsproject
pre-commit install
```

It is a good idea to update the hooks to the latest version:

```
pre-commit autoupdate
```

Please also check PyScaffold's [contribution guidelines](#).

1.1.3 Note

This project has been set up using PyScaffold 3.2. For details and usage information on PyScaffold see <https://pyscaffold.org/>.

1.2 License

The MIT License (MIT)

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1.3 Contributors

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1.4 Changelog

1.4.1 Version 0.5 (development)

- Updated to use PyScaffold v4 API
- Updated Cirrus CI config file
- Added new useful tasks to `tox.ini`
- Renamed `environment.yaml` to `environment.yml`
- Added `Yellowbrick` to `environment.yaml`

1.4.2 Version 0.4.1

- Fix problem with additional new lines in Windows

1.4.3 Version 0.4

- Add a `.gitignore` also in the `data` folder
- Changed wording in `README.md`

1.4.4 Version 0.3.1

- Fixed wrong folder name in `README.md` template

1.4.5 Version 0.3

- Added a configs folder

1.4.6 Version 0.2.1

- Fixed some docs
- Adjusted line lengths
- Some cosmetic changes

1.4.7 Version 0.2

- Reworked the general layout some more

1.4.8 Version 0.1

- Initial commit

1.5 pyscaffoldext

1.5.1 pyscaffoldext.dsproject package

Subpackages

pyscaffoldext.dsproject.templates package

Module contents

Submodules

pyscaffoldext.dsproject.extension module

Module contents

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