

ibm-granite / granite-tsfm Public

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wgifford Merge pull request #432 from ChernovAndrey/main

b629ba4 · 14 hours ago · 2,061 Commits

.github	ditch poetry-dynamic-versioning	2 days ago
.vscode	pytest just looks at services/inf...	4 days ago
notebooks	Merge branch 'main' into conf...	last week
scripts	use ruff	last year
services	cve	16 hours ago
tests	Merge pull request #429 from i...	20 hours ago
tsfm_public	Merge remote-tracking branch...	15 hours ago
tsfmhfdemos	ruff	9 months ago
.gitignore	ignore checkpoint files	last year
.isort.cfg	isort	2 years ago
.whitesource	Add .whitesource configuration...	4 months ago
LICENSE	Initial commit	2 years ago
Makefile	include services in style, format	last year
README.md	ditch python 3.9 as it's EOL at ...	4 days ago
pyproject.toml	pin to 4.56.0 for now	2 days ago
pytest.ini	ignore some during test discov...	8 months ago
wiki.md	minor edits	8 months ago

TSMF: Time Series Foundation Models

Public notebooks, utilities, and serving components for working with Time Series Foundation Models (TSMF).

The core TSMF time series models have been made available on Hugging Face -- details can be found [here](#). Information on the services component can be found [here](#).

Python Version

The current Python versions supported are 3.10, 3.11, 3.12.

Initial Setup

First clone the repository:

```
git clone "https://github.com/ibm-granite/granite-tsfm.git"
cd granite-tsfm
```

Notebooks Installation

Several notebooks are provided in the `notebooks` folder. They allow you to perform pre-training and finetuning on the models. To install use `pip` :

About

Foundation Models for Time Series

- Readme
- Apache-2.0 license
- Activity
- Custom properties
- 702 stars
- 17 watching
- 248 forks

Report repository

Releases 31

v0.3.1 Latest
on Jun 30

+ 30 releases

Packages

No packages published

Contributors 27

+ 13 contributors

Languages

Jupyter Notebook	90.0%
Python	9.9%
Other	0.1%

<https://github.com/ibm-granite/granite-tsfm>

1/2

```
pip install ".[notebooks]"
```



Links to the notebooks

- Getting started with PatchTSMixer [\[Try it out\]](#)
- Transfer learning with PatchTSMixer [\[Try it out\]](#)
- Transfer learning with PatchTST [\[Try it out\]](#)
- Getting started with TinyTimeMixer (TTM) [\[Try it out\]](#)
- TTM full benchmarking scripts and results are available [\[here\]](#)

Google Colab Tutorials

Run the TTM tutorial in Google Colab, and quickly build a forecasting application with the pre-trained TSFM models.

- [TTM Colab Tutorial](#)

Demos Installation

The demo presented at NeurIPS 2023 is available in `tsfmhfdemos`. This demo requires you to have pre-trained and finetuned models in place (we plan to release these at a later date). To install

 [README](#)  Apache-2.0 license



```
pip install ".[demos]"
```



Issues

If you encounter an issue with this project, you are welcome to submit a [bug report](#). Before opening a new issue, please search for similar issues. It's possible that someone has already reported it.

Wiki

[Wiki Page](#)

Notice

The intention of this repository is to make it easier to use and demonstrate Granite TimeSeries components that have been made available in the [Hugging Face transformers library](#). As we continue to develop these capabilities we will update the code here.

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