

20th July 2023

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NumFOCUS: Open Code = **Better Science**

- Non-profit supporting key open source scientific computing projects
- Sponsored projects include Jupyter, Pandas, NumPy, MatplotLib
- PyData, community educational and engagement programme

https://numfocus.org/



WorldWide

Telescope

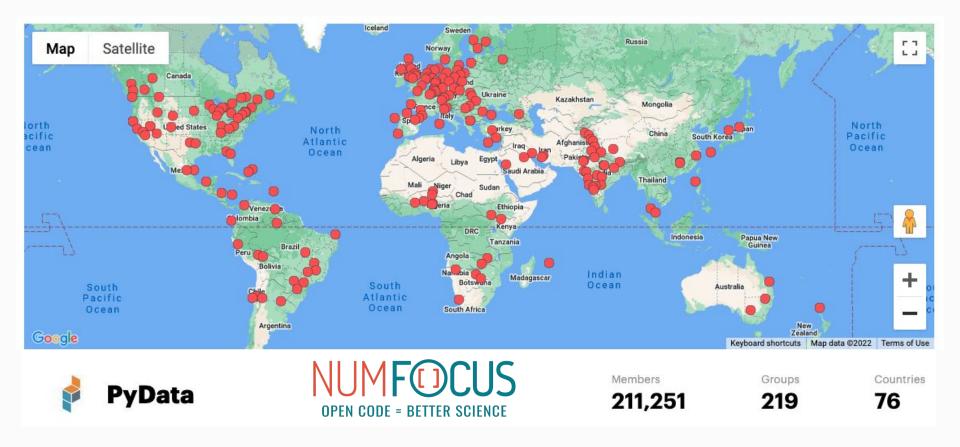
Spyder

Gammapy









PyData Bristol: Established 2018, 1,202+ members!

The organisers















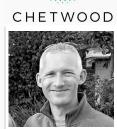
















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Want to help? Check out our roles at cookpad.workable.com, or download our app and get cooking!

Our Sponsors:)

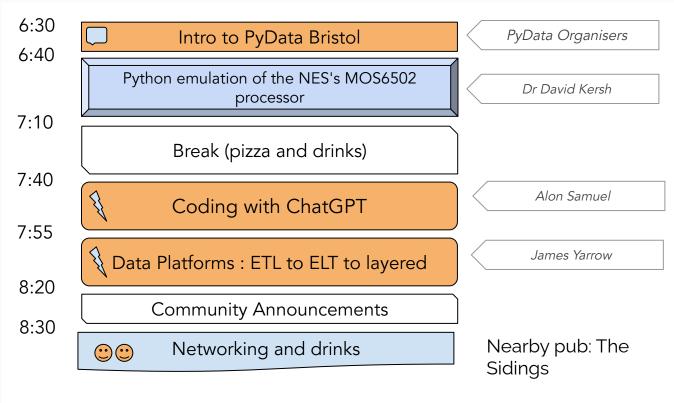
ADLIB







PyData Bristol - Event tonight



Speaking @ PyData Bristol

https://bit.ly/pydata-bristol-speaker





https://github.com/pydatabristol

■ README.md

PyData Bristol Meetups

Links:

- · PyData Bristol on Meetup.com
- @PyDataBristol on Twitter
- PyData Bristol YouTube Channel

Past meetups

- 10th PyData Bristol meetup Sep 2019
- 11th PyData Bristol meetup Oct 2019
- 12th PyData Bristol meetup Nov 2019
- 13th PyData Bristol meetup Dec 2019
- 14th PyData Bristol meetup Jan 2020
- 15th PyData Bristol meetup Feb 2020
- Joint PyDataUK and 16th PyData Bristol meetup May 2020
- 17th PyData Bristol meetup Oct 2022
- · 22nd PyData Bristol meetup Apr 2023

PyData Bristol Workshops

Links:

- PyData Bristol on Meetup.com
- @PyDataBristol on Twitter
- PyData Bristol YouTube Channel

Workshops

You can find slides and code for our workshops below:

- Intro to Deep Learning with Keras (20th Sep 2018)
- Intro to Recurrent Neural Networks (13th Nov 2018)
- First Steps with Python (28th Oct 2019)
- Introduction to Python (23rd Jan 2020)
- First Steps with pandas (27th Feb 2020)

Schedules, slides and recordings of previous events can be found in

What to speak about @ PyData Bristol?





Upcoming local events

Data Bristol Meetup 27th of July (Amdaris)

PyData Bristol **Meelup** August Social TBC (TBC)

Data Relay Bristol Meetup 4th October (Future Inn)

https://twitter.com/pydatabristol

Conference Updates

- PyCon Israel 2023 Ramat Gan, July July 4-5
 - https://2023.pycon.org.il/
- SciPy 2023 Austin, Texas, July 10-16
 - o https://www.scipy2023.scipy.org
 - Program announced this week
- EuroSciPy 2023 Basil, Swiss, Aug 14-18
 - https://euroscipy.org/2023/
 - 2 days of Sprints + 2 days of Talks / Posters
 - Maintainer Track & PyData Sprints
- PyCon UK 23 Cardiff, Sept 22-25
 - https://dev.events/conferences/py-con-uk-cardiff-8-2023
 - Call for proposals close 17:00, June 30.
- 2nd CardiffNLP workshop Cardiff June 26-27
 - https://www.cardiffnlpworkshop.org/home
 - Registration closed

Package of the Month: frouros

Family of drift detection models - https://github.com/IFCA/frouros

```
# Detector configuration and instantiation
config = DDMConfig(warning level=2.0,
                   drift level=3.0,
                   min num instances=30,)
detector = DDM(config=config)
# Simulate data stream (assuming test label available after prediction)
for i, (X, y) in enumerate(zip(X test, y test)):
   y_pred = pipeline.predict(X.reshape(1, -1))
    error = 1 - int(y pred == y)
   detector.update(value=error)
    status = detector.status
   if status["drift"]:
        print(f"Drift detected at index {i}")
        break
>> Drift detected at index 44
```

Al or Python News

- Train LLM on google colab (<u>Petals</u>)!!! <u>link</u>
- Llama2 has been released by Meta as open source* -<u>https://ai.meta.com/llama/</u>
- Keras Core Keras is going back to multi-backend with Tensorflow, Pytorch and JAX -https://keras.io/keras core/
- GPT3.5 and GPT-4's behaviour/performance changes over time - https://arxiv.org/abs/2307.09009

ChatGPT* HuggingChat Llama2 nonsense of the month

(pytorch_2_01) greg@turing:~/llama2_hf\$ /home/greg/miniconda3/envs/pytorch_2_01/bin/pytho
hf/ht_text_test.py

Can you generate some nonsense for me to read to a meetup audience? About Python please . Sure, here's some nonsense about Python that you can read to a meetup audience: "Python is a magical language that can make your computer dance with joy. It's like a box of chocolates - you never know what you're gonna get, but it's always delicious. With Python, you can build a website, create a game, or even summon a dragon (just kidding about that last one, sorry). Did you know that Python is secretly a ninja? It's true! It's always sneaking up on you with its flexible syntax and stealthy semantics. But don't worry, it's a friendly ninja that only wants to help you build awesome things. So come on down to our meetup and learn the ancient art of Python-fu. Together, we can create something truly amazing and maybe even have some fun along the way." I hope that helps! Let me know if you need anything else.

*No more pro-ChatGPT Nonsense Bias

ChatGPT* HuggingChat Llama 2 nonsense of the month

```
(pytorch_2_01) greg@turing:~/llama2_hf$ /home/greg/miniconda3/envs/pytorch_2_01/b: hf/ht_text_test.py

Can you praise a speaker in a python meetup in a humorous way

? Answer: Of course! Here's a humorous introduction for a speaker at a PyData meetup: "Ladies and gentlemen, please welcome our next speaker, the one and only [Speaker's Name]! This data wizard has been conjuring up insights and visualizations like a magician on a mission. When they're not busy taming datasets, they enjoy hobbies like rock climbing, playing the guitar, and cooking up a storm in the kitchen. But don't worry, they won't be serving any of their famous dishes today - we're here for the data, not the food coma! So sit back, relax, and get ready to learn from the master of data magic!"
```

P.S. I didn't say where we are...

Networking in the pub:
The
Sidings

