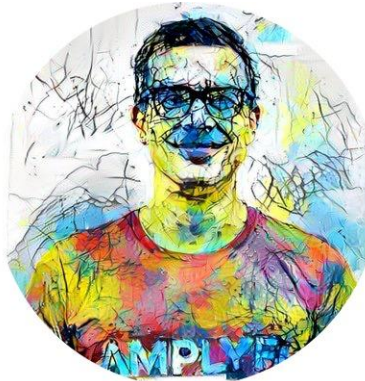# PyData Cardiff

4th Meetup - 10th October 2018

Sponsored by: **AMPLYFI**

Welcome to all our new members and 1st timers

Tim

Kacper

James

We're always looking for speakers!

- Email us!
  - pydatacardiff@gmail.com
- Link to submit talk on the main meetup
- Our slides will be on out Github page:
  - https://github.com/pydatacardiff

Tonight's event:

- Introduction
- James Campbell - Cardiff University
  - An Introduction to Deep Learning
- BREAK 🍕🍻🥤
  - Pizza, soft drinks, and beers
- Yunus Saatchi - AMPLIFY and UBER AI Labs San Francisco
  - Deep Generative Models
- Lightning Talk ⚡
  - Simon Moon - INCOPRO

News:

- **PyCon 2018: 15 - 19 September**
  - **https://2018.pyconuk.org/**
- **PyCon UK YouTube Channel**

Nobel Prize in Economics: Paul Romer

This year's Nobel Prize in economics was awarded to a Python convert

By Dan Kopf • October 8, 2018

- Romer believes strongly in research transparency
  - "The more I learn about proprietary software, the more I worry that objective truth might perish from the earth"
- Heavy use of Jupyter notebooks for sharing and collaboration

https://qz.com/1417145/economics-nobel-laureate-paul-romer-is-a-python-programming-convert/

PyTorch 1.0 in the Cloud

AI

Facebook launches PyTorch 1.0 with integrations for Google Cloud, AWS, and Azure Machine Learning

KHARI JOHNSON   @KHARIJOHNSON   OCTOBER 2, 2018 9:30 AM

Fast.ai - Also released version 1 - based on PyTorch

AI

Fast.ai launches fastai v1, a deep learning library for PyTorch

KHARI JOHNSON   @KHARIJOHNSON   OCTOBER 2, 2018 12:08 PM

- Courses:
  - Practical Deep Learning for coders
  - Cutting edge deep learning for coders
  - Website: fast.ai

https://venturebeat.com/2018/10/02/fast-ai-launches-fastai-deep-learning-library-for-pytorch/

fast.ai

Making neural nets uncool again

Udacity - Also getting involved!

Intro to Deep Learning with PyTorch

by **facebook** Artificial Intelligence

Use PyTorch to implement your first deep neural network

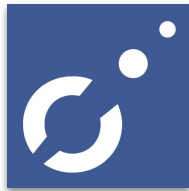**NOTIFY ME**

https://www.udacity.com/course/deep-learning-pytorch--ud188

Module of the "bimestrial meetup"
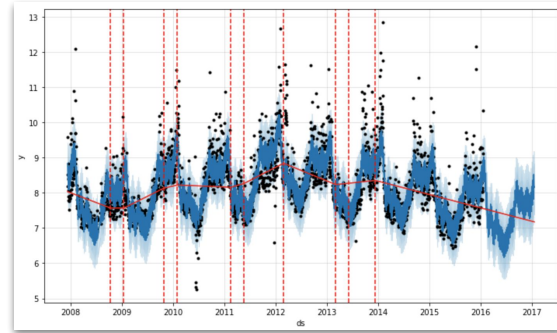
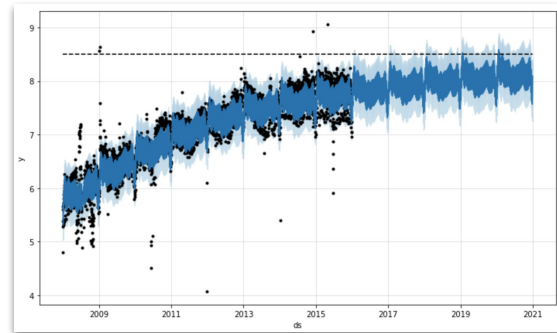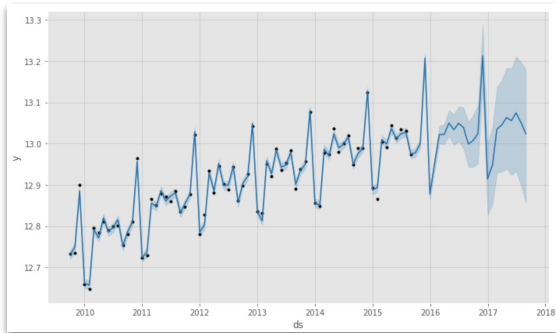# Module of the "bimestrial meetup"

Module of the "bimestrial meetup"

- Developed by data scientists at Facebook
- Provides forecasts on univariate time-series using Bayesian methods
  - STAN - but is also getting ported to PyMC3: `pip install pmprophet`
- Parameters allow for:
  - Saturating/Damping control
  - Automatic or manual additions of key changepoints
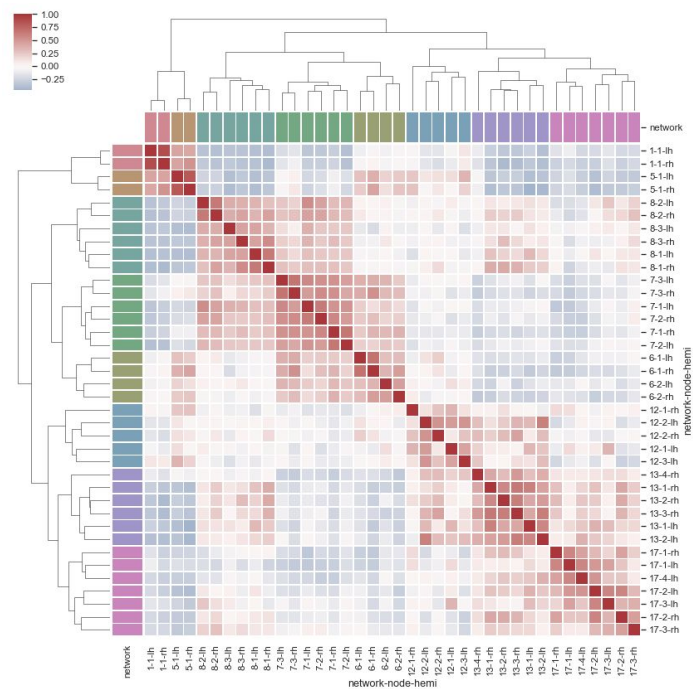- APIs in both Python and R

https://facebook.github.io/prophet/
http://pythondata.com/forecasting-time-series-data-with-prophet-part-1/
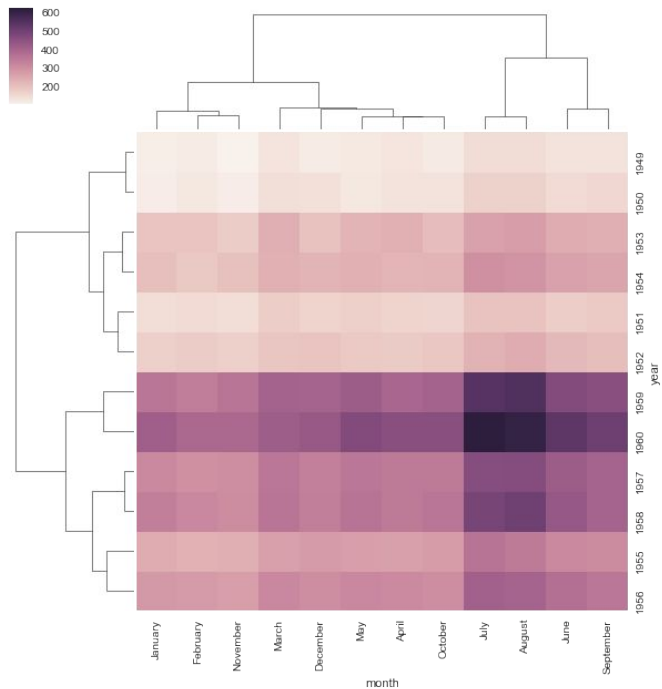https://github.com/luke14free/pm-prophet

A great function: seaborn clustermap

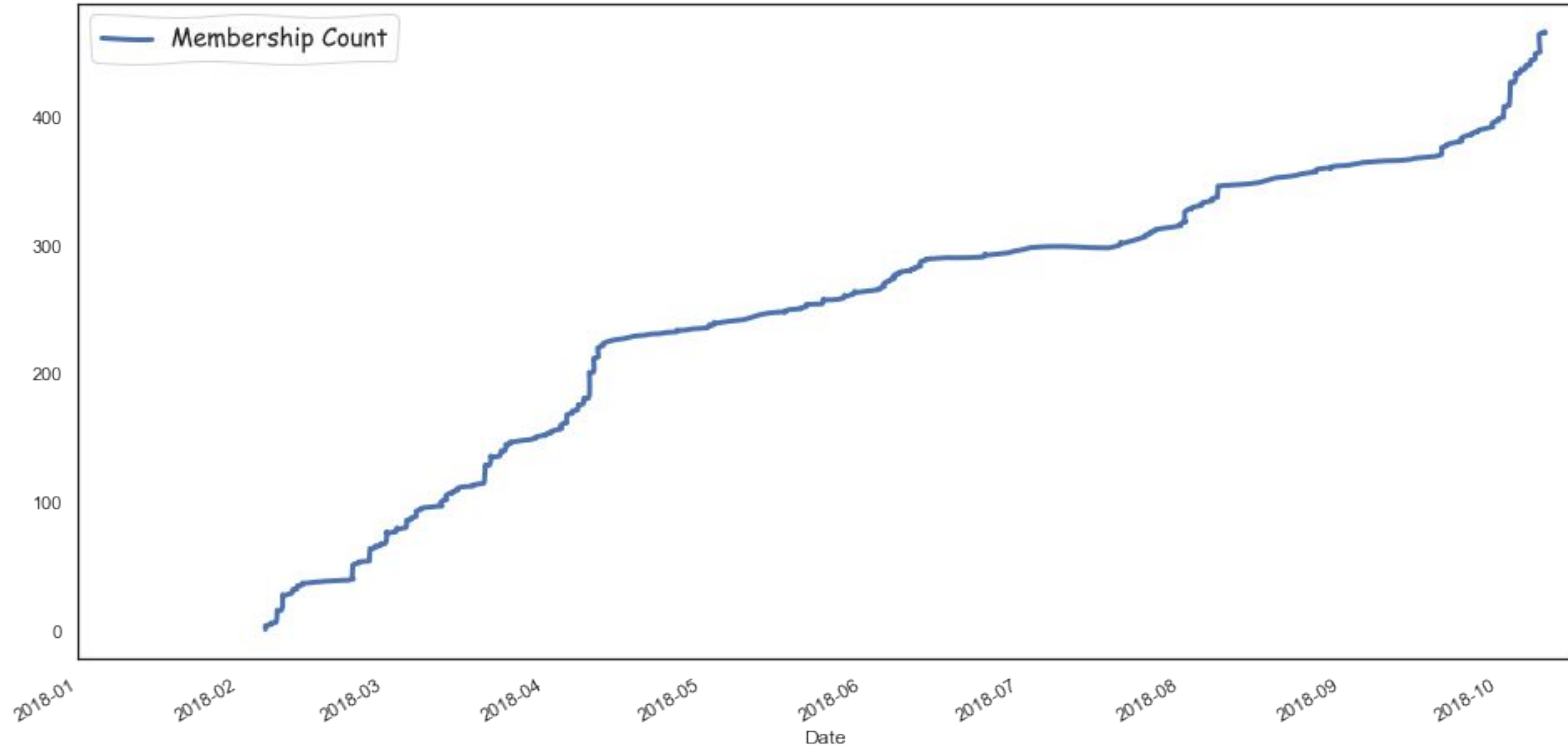http://blog.livedoor.jp/oyajieng_memo/archives/1638024.html
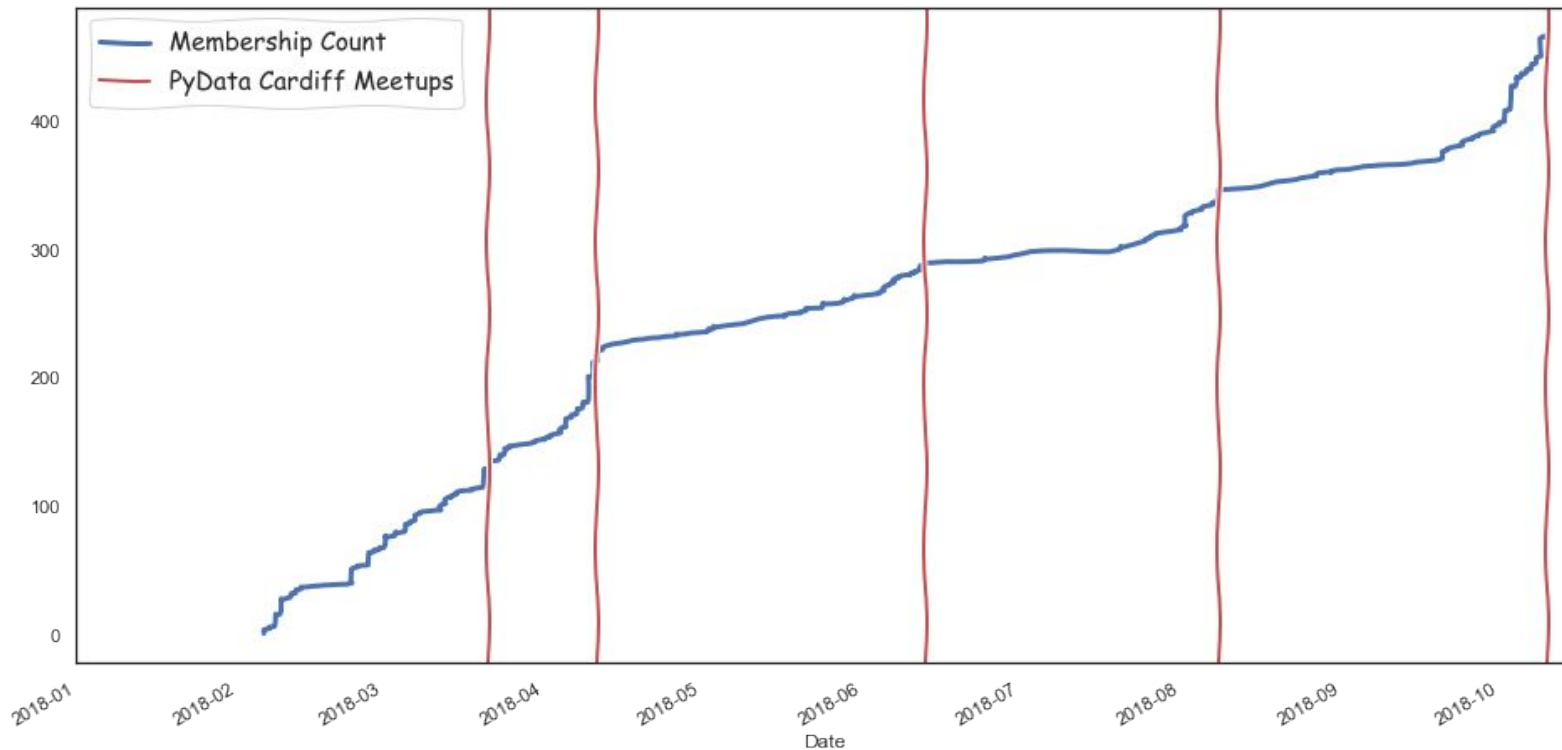https://seaborn.pydata.org/examples/structured_heatmap.html

Other local meetups:

- PyData Bristol:
  - Upcoming in Mid-November
  - https://www.meetup.com/PyData-Bristol/
- Cardiff R
  - Every other Thursday at Bar 33 Windsor Place
  - 18th October
  - https://www.meetup.com/Cardiff-R-User-Group/
- AI Wales
  - Next meetup on 1st November: 'Fuzzy logic - a practical NLP workshop'
  - https://www.meetup.com/AI-Wales
- PyDiff
  - http://www.pydiff.wales/

Membership

Membership so far - 465 (at 8:55 this morning!)

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NUMFOCUS

OPEN CODE = BETTER SCIENCE

- Become a member
- Make a donation
  - https://numfocus.org/

First talk:

- James Campbell
  - An Introduction to Deep Learning