July 12-14, Basel

Attendees: [Former user (Deleted)](#) [Horatiu Maiereanu](#)

Website: https://ep2019.europython.eu/

Feedback:

Horatiu

Talks I recommend:

Tensorflow 2.0: Tensorflow Strikes Back

- new features in Tensorflow 2.0

- emphasized eager execution as the great improvement for the new version

- Video: https://www.youtube.com/watch?v=jnDfNJe-GlE&t=6623s

How To Build a Python Microservice Without losing a Job

- a funny and high level presentation about how to build microservices in python and what frameworks and tools to use

- Recommends:

  - using either Flask or Falcon(hug) frameworks, Falcon being the fastest.

  - use sidecar containers for logging or use ambassador as a proxy for all the services that an app container needs to communicate with

  - use a service mesh control plane to discover services in a microservices architecture

- Video: https://youtu.be/3Dsq_sPLc3g?t=16006

From Python script to Open Source Project

- Steps to do to make a project open source

- Slides: https://ep2019.europython.eu/media/conference/slides/cqCkLpC-from-python-script-to-open-source-project.pdf

- Video: https://youtu.be/icVMirr1Kis?t=18778

The state of Machine Learning in 2019

- very good presentation about building ML pipelines in real production systems. Brings up real problems that can be encountered while working on this type of projects (allocating resources, avoiding cron jobs hell).

- underlines the need for explainability through: data assessment, model evaluation and production monitoring.

- open source ML deployment and orchestration on kubernetes framework: seldon.io

- Repository: https://github.com/EthicalML/state-of-mlops-2019

- Video: https://www.youtube.com/watch?v=2FmMESSD2CM&t=23480s

Zen of Python Dependency Management

- A very good evaluation of the python dependency management tools(pipenv, pip-tools, poetry) with pros and cons. gives a good evaluation of pip-tools that we use and recommends poetry as a more complete tool.

- Video: https://youtu.be/HdtBT3yXUeE?t=9126

Look Ma, No HTTP!

- how to build a web app with a server and multiple clients using websockets, based on socket.io framework and python-socketio

- great live coding session

- Video: https://www.youtube.com/watch?v=C-Ltp1D_m3c&t=18081s

Configuring uWsgi for Production: The defaults are all wrong

- great and very practical presentation about configuring uwsgi as its defaults are outdated

- Video: https://www.youtube.com/watch?v=2hN7uTcaHLM&t=24295s

- Article with the same content: https://www.techatbloomberg.com/blog/configuring-uwsgi-production-deployment/

Cristi

Should watch

Talk	Slides	Recording	Attendee Rating	My Rating	Notes
Building Data-Driven Client Relationship Management in Banking with Python	N/A	Link	5	5	Talk about how Credit Suisse deals with high data volumes, pipelines, machine learning and explainabilit Look into django-data-explorer as a means to quickly visualize existing data sources

Talk	Slides	Recording	Attendee Rating	My Rating	Notes
The state of Machine Learning Operations in 2019	N/A	Link	4	5	One of the best talks and one of the most relevant for what we intend on doing for Demand Forecasting & Auto-Ordering https://github.com/EthicalML/awesome-machine-learning-operations
Advanced asyncio: Solving Real-world Production Problems	N/A	Link	5	5	Very in depth talk (with examples) about using asyncio The best bits, in my opinion, were about testing, debugging and profiling async code which no one talks about very often
Look Ma, No HTTP!	N/A	Link	5	5	The best presentation at the conference in my view Live coding demonstration about how to use web sockets for a single page web application instead of traditional HTTP requests (in this case, the app was a game of chess) This could be useful to us if we're going to consider using a single page application for displaying the visualizations for the Demand Forecasting project in a very dynamic way
Configuring uWSGI for Production: The defaults are all wrong	N/A	Link	5	5	Extremely useful and detailed presentation about a better uwsgi configuration file for production deployments
TensorFlow 2.0: TensorFlow Strikes Back	N/A	Link	4	4.5	Very good overview of the changes made from Tensorflow 1.x to Tensorflow 2.0 Very interesting even the experience with Tensorflow is limited

Maybe watch

Talk	Slides	Recording	Attendee Rating	My Rating	Notes

Title					Notes
From days to minutes, from minutes to milliseconds with SQLAlchemy	Link	Link	3	2	Some of the information presented is pretty basic but there are some things which were new to me (SQLAlchemy DB function representations in Python, instance)
Python's Parallel Programming Possibilities - 4 levels of concurrency	N/A	Link	4	N/A	Didn't see it, but I heard good things about it and woul want to watch it
The dos and don'ts of task queues	Link	Link	4	2	I was pretty disappointed with this as I didn't really lea anything new (more than what I used to do at PBS); however, if you're fairly new to task queues in Python, this can be worthwhile Basically a list of arguments of why you should choose Celery over RQ
Dash: Interactive Data Visualization Web Apps with no JavaScript	N/A	Link	4	3	Very interesting way of prototyping (single-page) web apps centered around graphs and visualizations withou using JavaScript directly
Static typing: beyond the basics of def foo(x: int) -> str:	Link	Link	4	N/A	Didn't see this one live, but it seems very interesting
Introduction to low-level profiling and tracing	Link	Link	4	4	Pretty advanced debugging strategies (could apply for code written in something else than Python Could be especially useful for DevOps when investigating really complex performance issues
How to ship a Python app to a hundred million desktops	N/A	Link	5	N/A	Didn't see it, but I really want to. I heard it was cool.

Talk	Slides	Recording	Attendee Rating	My Rating	Notes
Gamifying the study of algorithms	Link	Link	4	3	Discusses ways of making how to code more appealing and interesting Not really of interest to us as a business, but still pretty fun and interesting
Building Data Workflows with Luigi and Kubernetes	Link	Link	4	N/A	Couldn't attend because it overlapped a different talk, but am interested in what was discussed
Astro Pi: Python on the International Space Station	Link	Link	4	4	Very cute talk about how the Raspberry Pi Foundation helps kids send out Python code to test it out on the International Space Station Although not very advanced, it is still worthwhile to find out about the difficulties that they've encountered
From HTTP to Kafka-based microservices	Link	Link	4	3	The title was pretty misleading; the talk was not in fact about Kafka but instead about a library which uses Kafka as a message broker

Don't watch

Talk	Slides	Recording	Attendee Rating	My Rating	Notes
What about recommendation engines?	N/A	Link	3	1	Extremely disappointing presentation First few minutes are about the presenter and Brazil (her home country) The rest is a very high level introduction to recommendation engines
Why You Should Pursue Public Speaking and How to Get There	Link	Link	4	2	Non-technical, not worth the time
Tips for the scientific programmer	Link	Link	2	2	Focused mainly on input/output data formats instead of actual parallelism, performance and memory management

					The upside was the fact that I learned about TOML (smile)
					Focused on the Strawberry library for GraphQL in Pyth
GraphQL in Python	N/A	[Link](#)	4	3	Not really something that we should consider at the moment based on the rest of our infrastructure; went in just to see what advances have been made in the last couple of years
Software patterns for productive teams	[Link](#)	[Link](#)	5	2	Most of the information presented was pretty common sense even if the presenter promised to "wow" the audience at least once The only somewhat novel idea presented was the rotati of the lead role inside a team every sprint