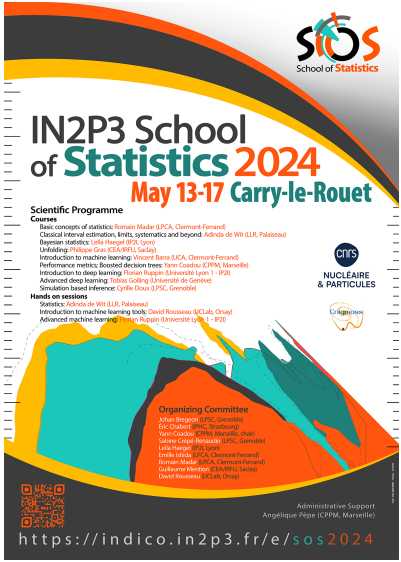
IN2P3 School of Statistics 2024

Yann Coadou
for the SOS organising committee

CPPM Marseille

Carry-le-Rouet
17 May 2024

Time to say thank you



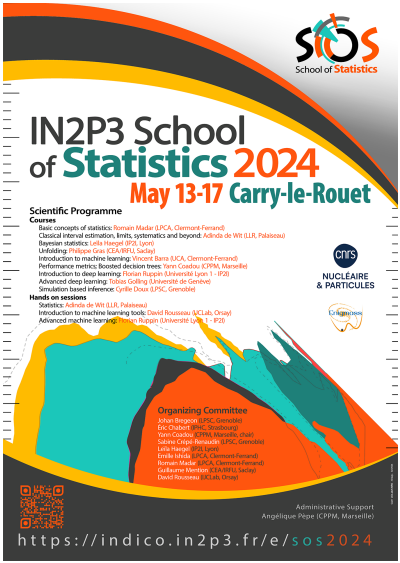
- This school received financial support from

- Thanks to the Miléade team
  - They gave me a lot of positive feedback on your behaviour:
    "Vous êtes des champions du monde !"
    Good job!

▸ https://indico.in2p3.fr/e/SOS2024

▸ https://sos.in2p3.fr

Thanks to people behind the scene



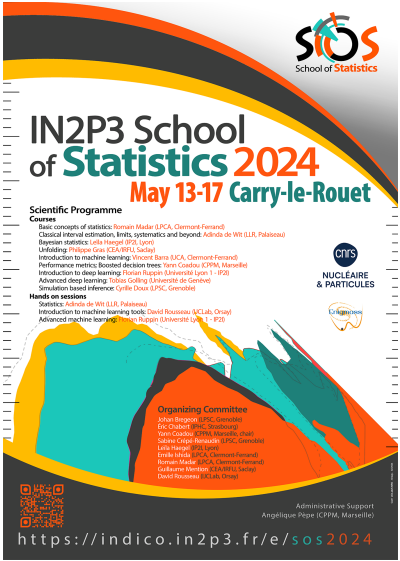
Organising committee

- Johan Bregeon (LPSC, Grenoble)
- Éric Chabert (IPHC, Strasbourg)
- Yann Coadou (CPPM, Marseille) [chair]
- Sabine Crépé-Renaudin (LPSC, Grenoble)
- Leïla Haegel (IP2I, Lyon)
- Emille Ishida (LPCA, Clermont-Ferrand)
- Romain Madar (LPCA, Clermont-Ferrand)
- Guillaume Mention (CEA/IRFU, Saclay)
- David Rousseau (IJCLab, Orsay)

Local support at CPPM

- Angélique Pèpe

Thanks to people in front of the screen



Lecturers

- Romain Madar (LPCA, Clermont-Ferrand)
- Adinda de Wit (LLR, Palaiseau)
- Vincent Barra (UCA, Clermont-Ferrand)
- Yann Coadou (CPPM, Marseille)
- David Rousseau (IJClab, Orsay)
- Leïla Haegel (IP2I, Lyon)
- Florian Ruppin (Université Lyon 1 – IP2I)
- Tobias Golling (Université de Genève)
- Philippe Gras (CEA/IRFU, Saclay)
- Cyrille Doux (LPSC, Grenoble)

Thank you all for participating

Survey from indico

Please fill in the survey about the school in the coming days (or from the main indico page)

Practicalities

- Bus departure for Aix-TGV at **13h45**, parking by restaurant: be on time!
- Please put your badge in the box before leaving

French ML activities

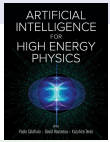
machine-learning-l@in2p3.fr

- To subscribe to the email list:
  - send a mail to listserv@in2p3.fr
  - with message body: subscribe machine-learning-l Firstname Lastname
- We hope to see you at the **IN2P3/CEA ML workshop in fall 2024** in Strasbourg (most likely)

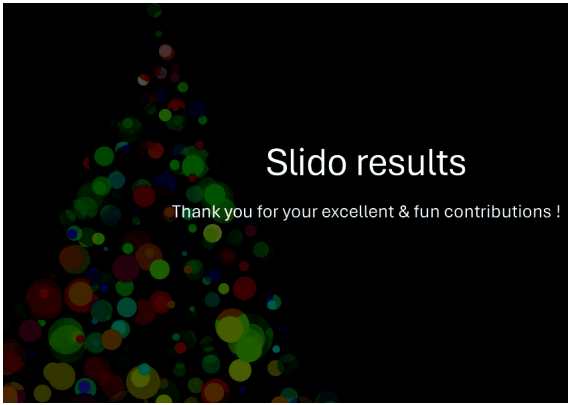
Reference book (March 2022)

Artificial Intelligence for High Energy Physics

https://doi.org/10.1142/12200



- Tobias shared the Slido results from yesterday in indico



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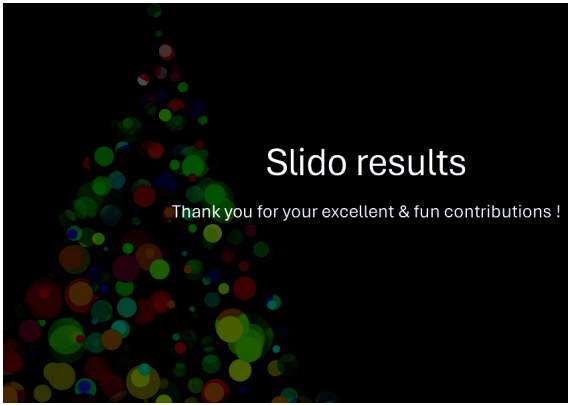


David Rousseau
@dhpmrou

10 years ago #OTD, @bingxu_ and @tqchenml quietly announced the birth of @XGBoostProject on the @kaggle #higgsml competition forum. Since then, XGBoost has skyrocketed in popularity to become the top ML go-to tool!
1/4

Traduire le post

Higgs Boson Machine Learning Challenge
Use the ATLAS experiment to identify the Higgs boson

Overview Data Code Models Discussion Leaderboard Rules

BING XU · 69TH IN THIS COMPETITION · POSTED 10 YEARS AGO

Public Starting Guide to Get above 3.60 AMS score

Hi all,

Tianqi Chen (crowwork) has made a fast and friendly boosting tree library XGBoost. By using XGBoost and run a script, you can train a model with 3.60 AMS score in about 42 seconds.

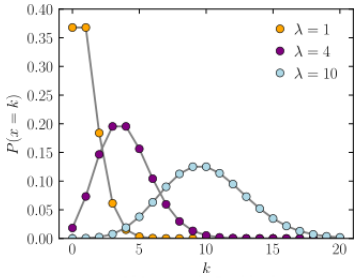
The demo is at: https://github.com/tqchen/xgboost/tree/master/demo/kaggle-higgs , you can just type ./run.sh to get the score after you build it.

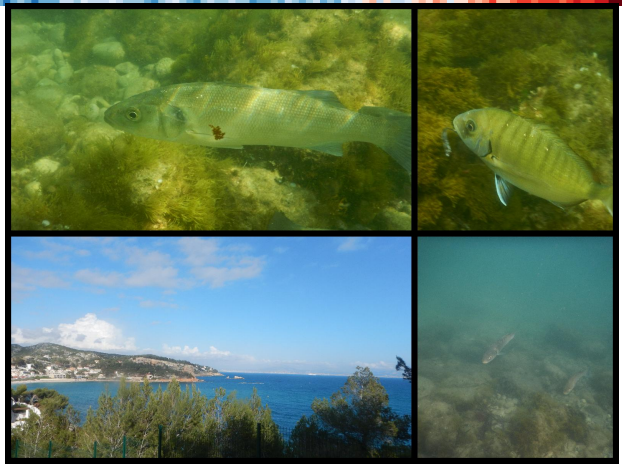
XGBoost is as easy to use as scikit-learn. And on my computer with Core i5-4670K CPU, the speed test.py (boosting 10 trees) shows:

sklearn.GBM costs: 77.5 seconds
XGBoost with 1 thread costs: 11.0 seconds
XGBoost with 2 thread costs: 5.85 seconds
XGBoost with 4 thread costs: 3.40 seconds

original post

The meanings of Poisson





```
>>> import scipy.stats
>>> scipy.stats.poisson
```

Safe trip back home!

WhatsApp