[MC-Toolkit] Creation of a *Machine Learning* group at IGE?

Thomas Chauve

https://github.com/mickaellalande/MC-Toolkit/tree/master/Machine-Learning

https://join.slack.com/t/mc-toolkit-ige/shared_invite/zt-dc3fgldi-wFNV9_AJbXzWb9dd0gdJHg

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[MC-Toolkit] What is MC-Toolkit ?

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Machine Learning Toolkit = MC **Toolkit** + **Machine Learning**

[MC-Toolkit] What is MC-Toolkit ?

- Presentation of numerical tools
  - Mostly python oriented (Toolbox)
  - Usualy on Thuesday 10h30 on ~~zoom~~

- GitHub https://github.com/mickaellalande/MC-Toolkit

- slack

MC-Toolkit meetings

Mickaël Lalande

Thèse 2019-2022
Directeurs : Gerhard Krinner et Martin Ménégoz
Institut des Géosciences de l'Environnement (IGE)

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Present your work and have feedback !

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Paper lecture

- Padarian et al. 2020 - https://doi.org/10.5194/soil-6-389-2020
- ...

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Machine Learning algorithms

- Tree base (Random Forest, Gradient Boost)
- Neural Network
- CNN
- ...

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Numerical Tools

- **PySINDy**
- **...**

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Explainable AI

SHAP LIME

- RFE, RFECV
- Permutation importance
- ...

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- ...

Numerical Tools

TensorFlow scikit learn PyTorch

- **PySINDy**
- **...**

[ML-Toolkit] Who is giving the lecture ?

YOU !!!

- I propose to manage the GitHub and the meeting organization.
- **You come to me to propose lectures.**

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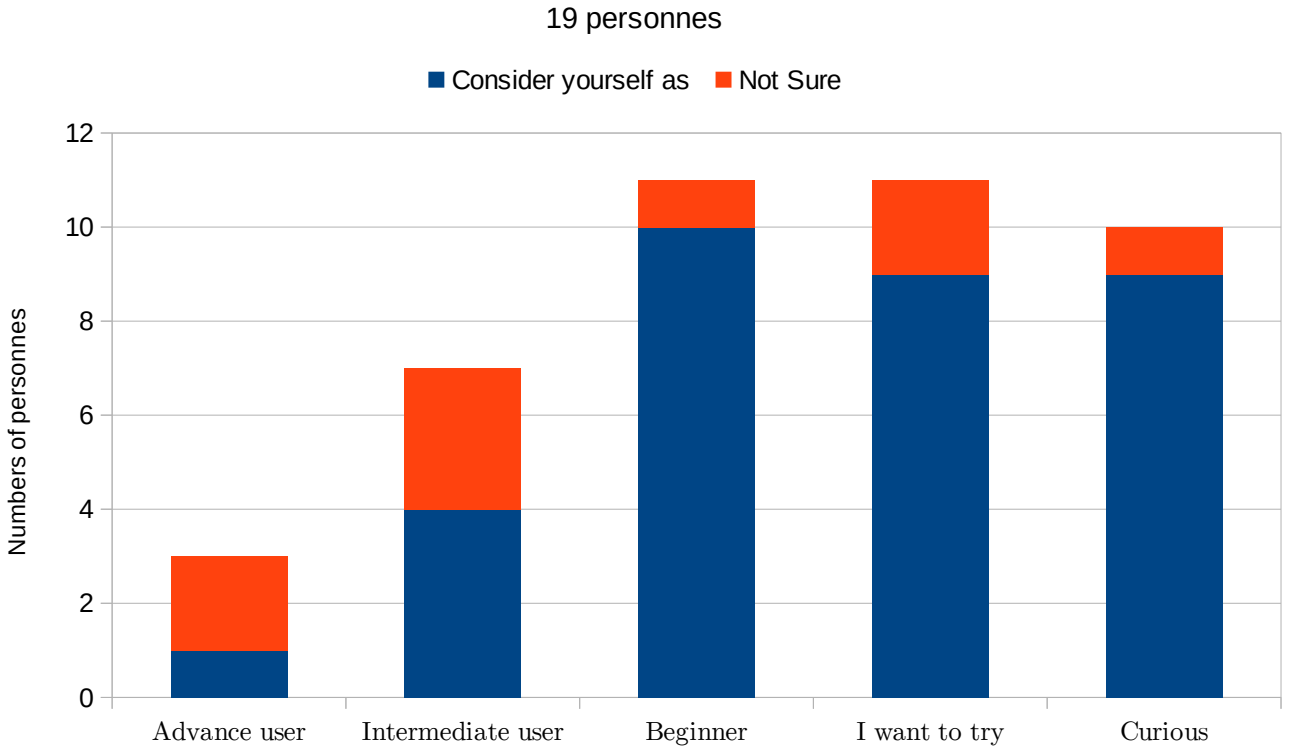
Who are you ?



[ML-Toolkit] Grenoble Machine Learning communuity

Deadline : 24th May 2021, 11:59pm CET

MIAI Grenoble Alpes

Chair/Institute ? https://miai.univ-grenoble-alpes.fr/