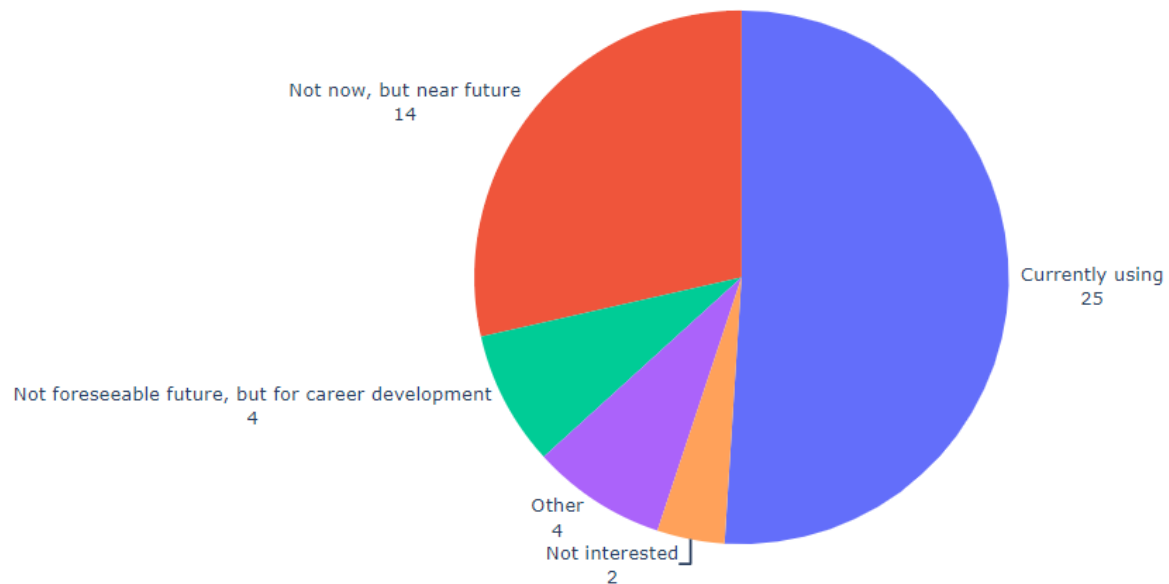


Survey on Machine Learning Training Needs

Conducted August-September, 2021

@Machine Learning Group 2021 Monthly Meeting (27 October)

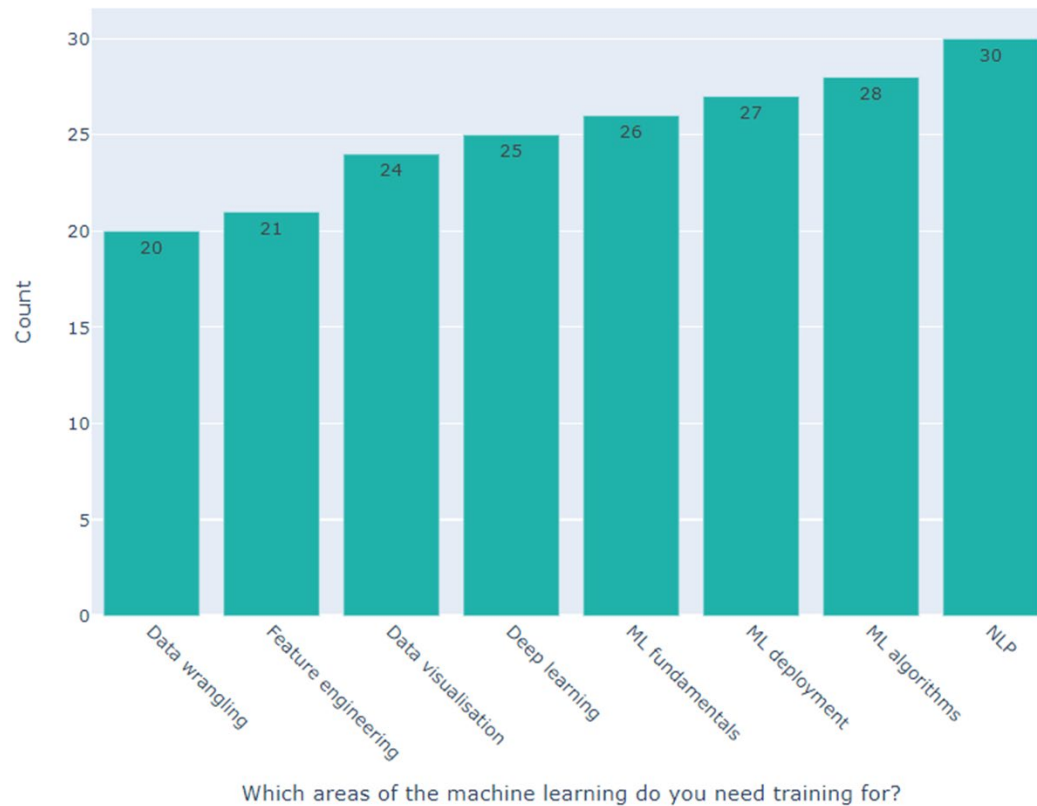
Why are you interested in the machine learning training?



Total 49 respondents

- **Currently using: 25 (51%)**
- **Not now, but near future: 14 (28%)**
- **Not foreseeable future, but for career development: 4 (8%)**
- Other: 4 (8%)
- Not interested: 2 (4%)

Which areas of the machine learning do you need training for (select all that apply)?



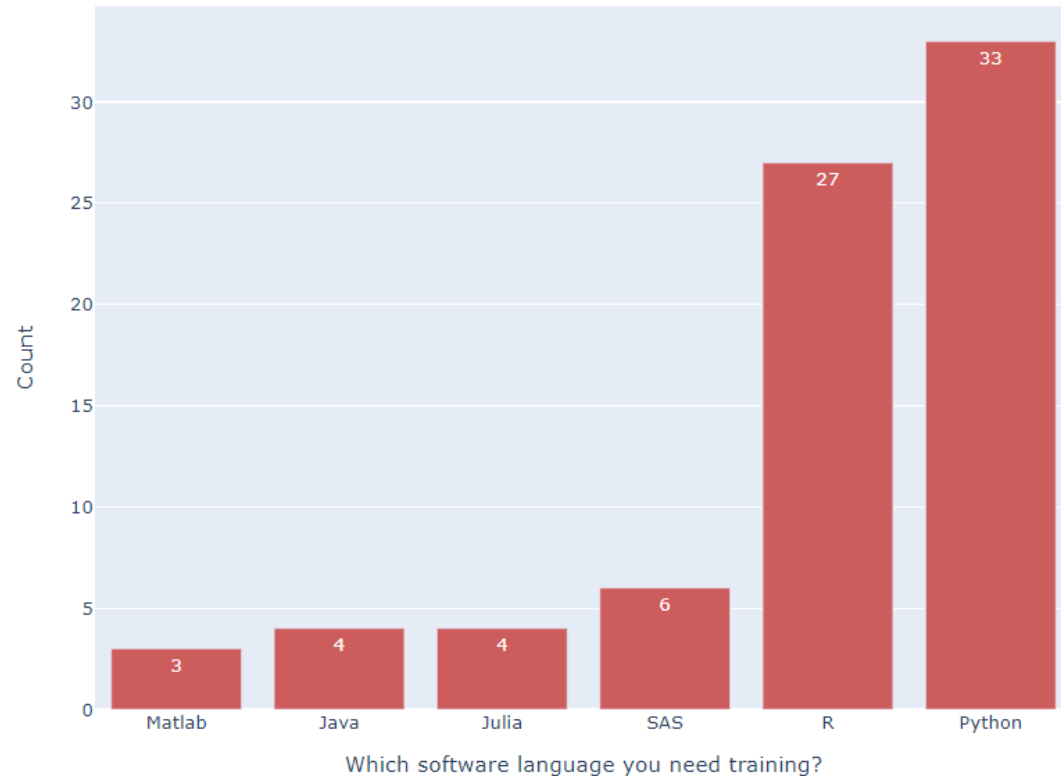
Among those who use ML now

- **NLP: 21**
- **ML deployment: 18**
- **Deep learning: 17**

Among those who want to use ML for near future

- ML algorithm: 11
- Data visualization: 8
- ML fundamental: 7
- ML deployment: 7

Which software language or program do you need training for machine learning (select all that apply)?



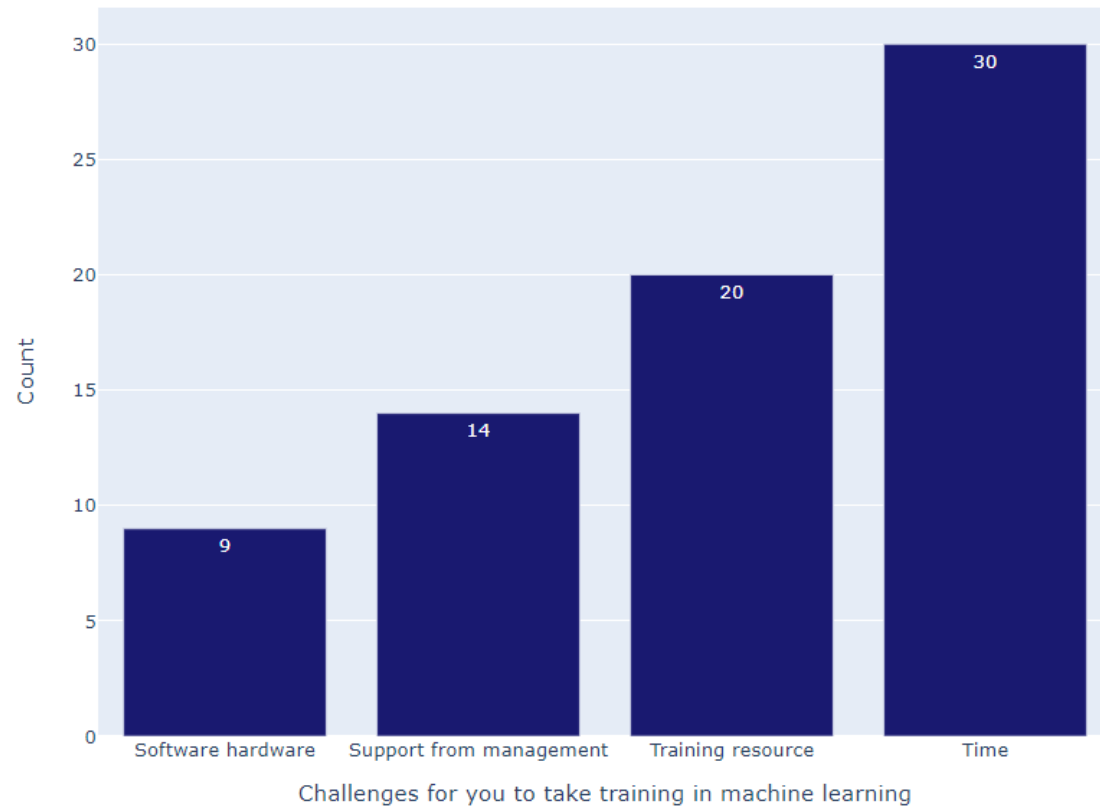
Among those who use ML now

- **Python: 21**
- R: 17
- SAS: 4

Among those who use ML for near future

- **R: 10**
- Python: 9
- SAS: 1

What are the challenges for you to take training in machine learning (select all that apply)?



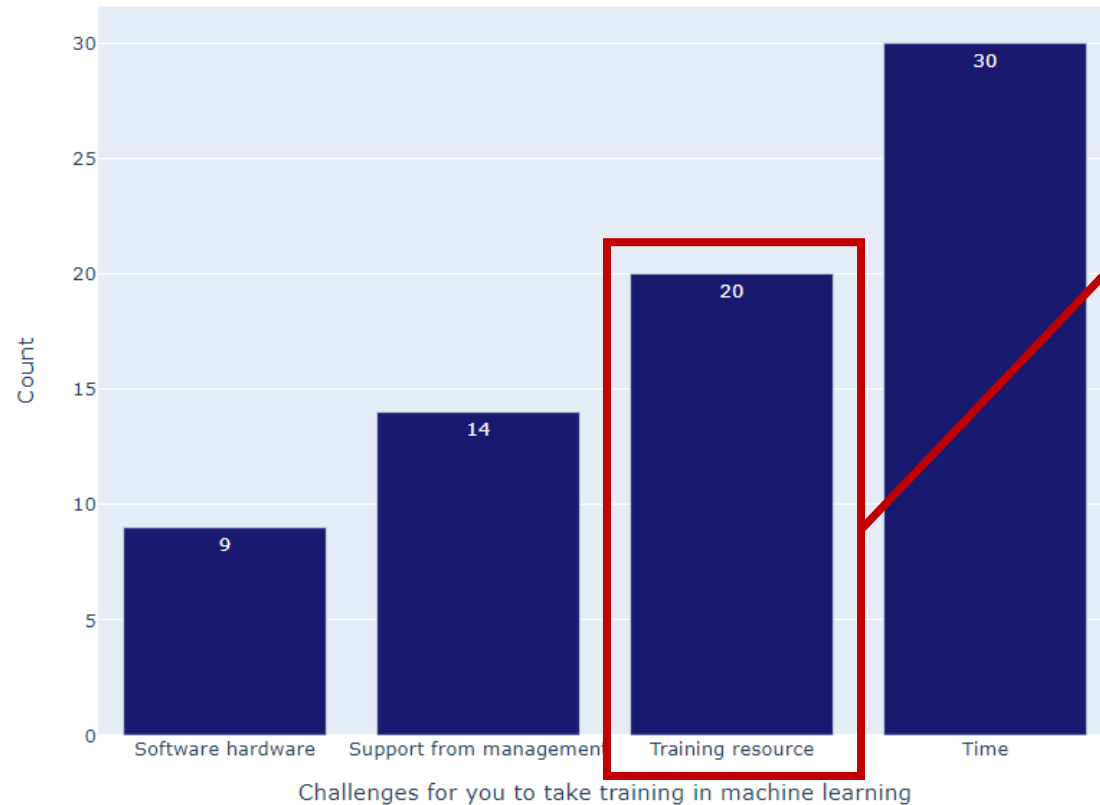
Among those who use ML now

- **Lack of time: 18**
- **Lack of training resource: 16**
- Lack of support from management: 6
- Lack of access to software/hardware: 6

Among those who want to use ML for near future

- **Lack of time: 9**
- **Lack of support from management: 7**
- Lack of training resource: 4
- Lack of access to software/hardware: 3

What are the challenges for you to take training in machine learning (select all that apply)?



Pages / Machine Learning for Official Statistics Home 790 views

Learning and Training

Created by Inkyung Choi, last modified on 07 Dec, 2020

- Machine learning is widely used in many areas and there is not lack of resources if one wants to learn
- This wiki page contains few of introductory resources produced or recommended by HLG-MOS ML project team
- These resources are all freely available on open platform
- If you have any material you want to share with the community, please contact UNECE Secretariat (choii at un dot org)

Machine learning

Course

- Machine Learning by Andrew Ng - [available on youtube](#)
- Machine learning by mathematicalmonk - [available on youtube](#)

Blog

- Machine Learning Mastery - <https://machinelearningmastery.com/start-here/>

Book

- 'The Elements of Statistical Learning: Data mining, Inference and Prediction', Trevor Hastie, Robert Tibshirani and Jerome H. Friedman (2009) - [available online](#)
- 'An Introduction to Statistical Learning with Applications in R', Gareth James, Daniela Witten, Trevor Hastie and Robert Tibshirani (2013) - [available online](#)

Python tutorial

- Coding and Classification kick on Google colab
- Fasttext tutorial by Statistics C
- Autocoding class by ameasur
- TensorFlow tutorial by Hvass

R tutorial

- Introduction to R by UK Data website)

Datasets

- Lack of training resource: 4
- Lack of access to software/hardware: 3

Thank you for your participation!!

