Coffee and Coding Welcome



ONS-UNECE Machine Learning Group 2022

2 November 2022







Housekeeping



Recording

Today's webinar will be recorded. The recording and slides will be available on the UNECE website after the event.



At the end of the seminar, you will be asked to take part in a short survey.



Questions and comments

The Teams chat will be closed during the presentation and will reopen at the end of the presentation.

Please use Slido to take part in polls and post your questions:

Go to www.slido.com

Slido Code: #3881745

Git Good

A quick introduction to Git and Github







Questions?

Ask in the chat! Brittny or I will see them!





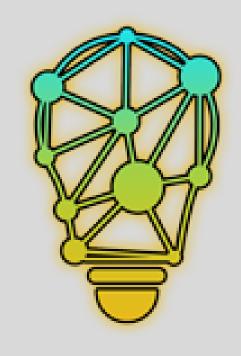
Who are we?





Statistics Statis Canada Cana

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Agenda

- 1 Introduction
- 2 Preconceived Notions
- What are Git and GitHub?
- 4 Break
- GitHub Demo/Follow Along
- 6 Close-Out



Head to the slido link in the chat You have 2 minutes!

Why version controlling code matters for NSOs

Reproducibility

Efficient and effective development of code

Create standardization between and within organizations

Easily
disseminate
changes and
updated
versions of
programs

What is Git?



- Git is an open source distributed version control system
- It is installed locally on your computer
- We are familiar with other forms of version control such as:
 - Microsoft Word's track changes
 - Google Docs' version history

What is GitHub/GitLab

- GitHub and GitLab are webbased services that allow for collaborative coding and dissemination of code
- They can be installed on internal servers too!

- Both GitHub and GitLab have additional project management and collaboration features to help with workflows
- You can select who sees
 what, so not everything has
 to be open to everyone if you
 don't want it to

- Git connects to GitHub, so we make our changes then use Git to upload them to GitHub
- Multiple people can connect their Git to a GitHub project to collaborate, and new collaborators can be added at any time

Share changes and get updates with GitHub

push changes pull updates

Work locally with Git

Answers to some of your questions

Yes, you can use GitHub with RStudio and VSCode (they both have a tutorial on it)

GitHub vs GitLab, it is all in the CI

Keep your data off of GitHub with .gitignore files and Git Status

Pull updates frequently to avoid merge conflicts

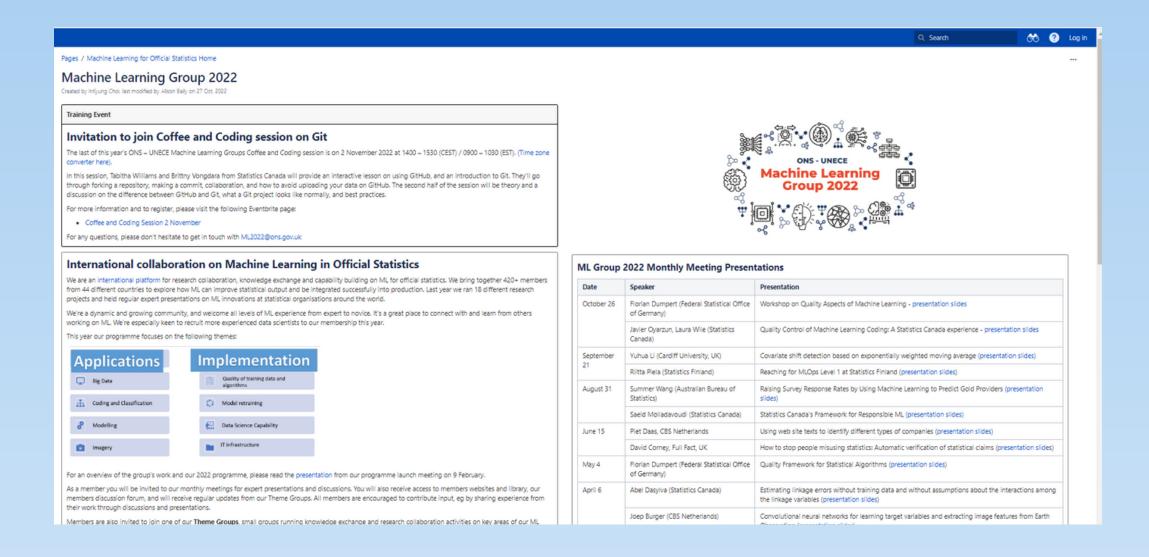


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10 Minute break
Log into Github.com when you come
back

Useful resources



- Coffee and Coding recordings
- Use cases from official statistics
- Information on ML Group 2022 activities & membership

statswiki.unece.org/display/ML/Machine+Learning+Group+2022



ML Group 2022 Webinar – 30 November

- Session I 1000-1130 CET
 - Applications of machine learning: web scraping data, text classification, imagery data, AIS data
- Session II 1500-1630 CET
 - Statistical production issues: quality of training data, model retraining, IT infrastructure
- Registration open on Eventbrite
 - Go to the link on the Machine Learning 2022 page here



Thank you for joining us!

Email ML2022@ons.gov.uk

Website: statswiki.unece.org/display/ML/Ma chine+Learning+Group+2022

