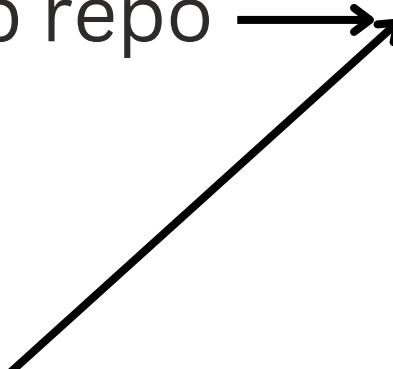


Environment Setup & Version Control

Objectives

1. Set-up CSEE Gitlab Account
2. Create your Personal Access Token on Gitlab (your secrets)
3. Save your secrets to Google Colab
4. Plan work scope, activities, outputs & create Gitlab branch
5. Run code to clone the specific branch from Gitlab repo
6. Locate your branch files in google drive
7. Fun time? write your own codes
8. Run “**3. Finish and Save back to Gitlab**” section
9. Create merge request on Gitlab



https://colab.research.google.com/drive/1_UYmIXTkxNQ2PFI7zt3EqOVh5BVz48Lv?usp=sharing

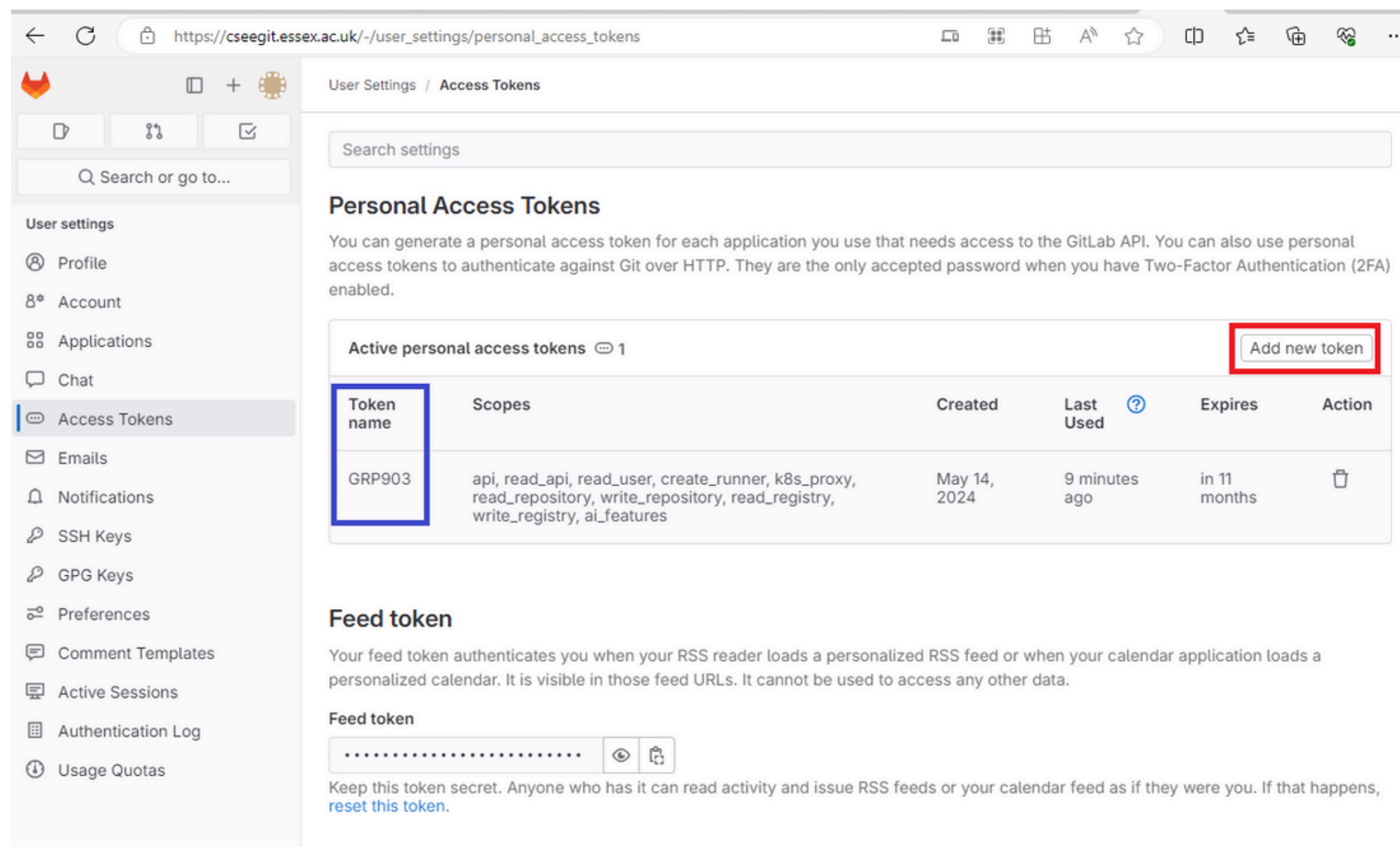
1 - Set-up Gitlab & Personal Access Token (PAT)

Access GITLAB Account

<https://moodle.essex.ac.uk/course/view.php?id=16545§ion=18>

Once logged in use this link to Set-up PAT

https://cseegit.essex.ac.uk/-/user_settings/personal_access_tokens



https://cseegit.essex.ac.uk/-/user_settings/personal_access_tokens

User Settings / Access Tokens

Search settings

Personal Access Tokens

You can generate a personal access token for each application you use that needs access to the GitLab API. You can also use personal access tokens to authenticate against Git over HTTP. They are the only accepted password when you have Two-Factor Authentication (2FA) enabled.

Active personal access tokens 1

Token name	Scopes	Created	Last Used	Expires	Action
GRP903	api, read_api, read_user, create_runner, k8s_proxy, read_repository, write_repository, read_registry, write_registry, ai_features	May 14, 2024	9 minutes ago	in 11 months	

[Add new token](#)

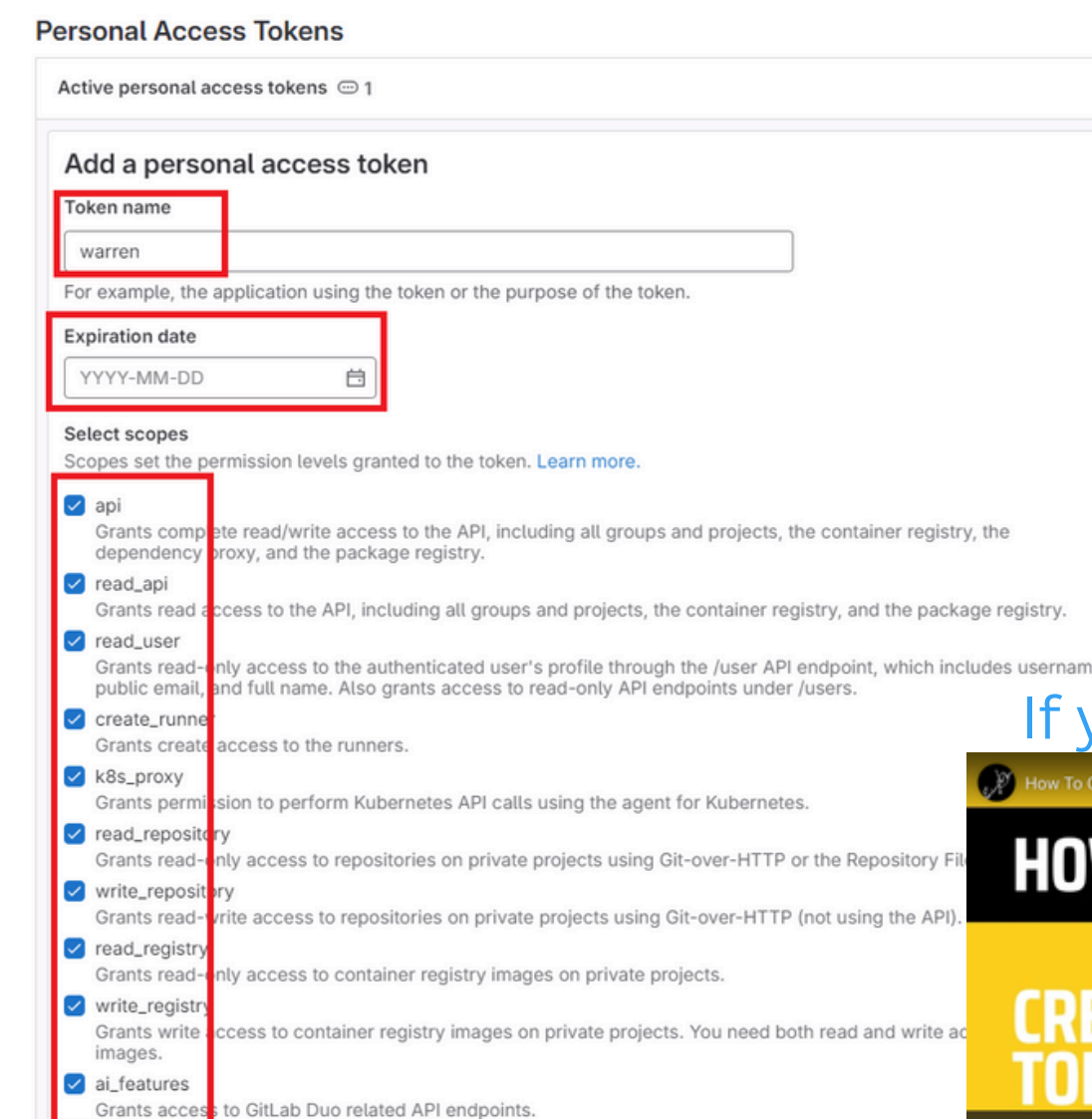
Feed token

Your feed token authenticates you when your RSS reader loads a personalized RSS feed or when your calendar application loads a personalized calendar. It is visible in those feed URLs. It cannot be used to access any other data.

Feed token

.....

Keep this token secret. Anyone who has it can read activity and issue RSS feeds or your calendar feed as if they were you. If that happens, [reset this token](#).



Personal Access Tokens

Active personal access tokens 1

Add a personal access token

Token name

warren

For example, the application using the token or the purpose of the token.

Expiration date

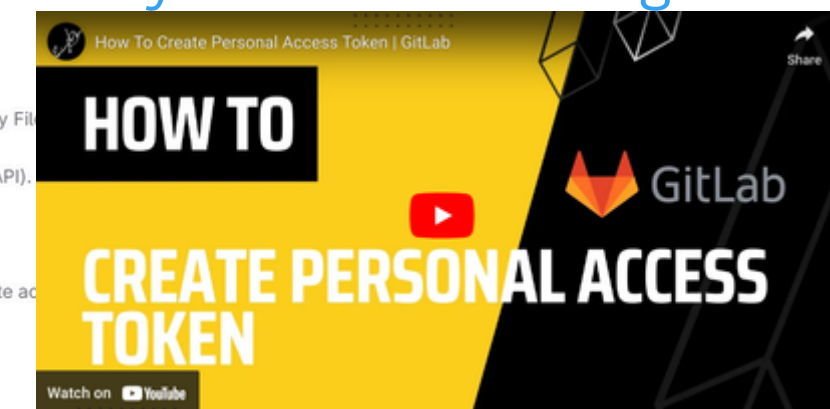
YYYY-MM-DD

Select scopes

Scopes set the permission levels granted to the token. [Learn more](#).

- ☒ api
Grants complete read/write access to the API, including all groups and projects, the container registry, the dependency proxy, and the package registry.
- ☒ read_api
Grants read access to the API, including all groups and projects, the container registry, and the package registry.
- ☒ read_user
Grants read-only access to the authenticated user's profile through the /user API endpoint, which includes username, public email, and full name. Also grants access to read-only API endpoints under /users.
- ☒ create_runner
Grants create access to the runners.
- ☒ k8s_proxy
Grants permission to perform Kubernetes API calls using the agent for Kubernetes.
- ☒ read_repository
Grants read-only access to repositories on private projects using Git-over-HTTP or the Repository File API.
- ☒ write_repository
Grants read-write access to repositories on private projects using Git-over-HTTP (not using the API).
- ☒ read_registry
Grants read-only access to container registry images on private projects.
- ☒ write_registry
Grants write access to container registry images on private projects. You need both read and write access to use the container registry.
- ☒ ai_features
Grants access to GitLab Duo related API endpoints.

If you need a video guide



2 - Save secrets to Google Colab

How to Setup Secrets

<https://www.youtube.com/watch?v=LPa51KxqUAW>

Add the following secrets shown below

☰

Secrets

✕

🔍

Configure your code by storing environment variables, file paths, or keys. Values stored here are private, visible only to you and the notebooks that you select.

{x}

Secret name cannot contain spaces.

🔑

Notebook access

	Name	Value	Actions
<input checked="" type="checkbox"/>	email	👁️ 📄 🗑️
<input checked="" type="checkbox"/>	token_name	👁️ 📄 🗑️
<input checked="" type="checkbox"/>	token	👁️ 📄 🗑️
<input checked="" type="checkbox"/>	url	👁️ 📄 🗑️
<input checked="" type="checkbox"/>	username	👁️ 📄 🗑️

+

Add new secret

3 - Define Work Plan, Login to GITLAB and Create Branch

SCOPE: data-preprocessing

Actions

- Read audio files
- Trim silence
- Create overlapping frames from each file
- Generate labels for the frames

Expected Output

- CSV file containing frame, sampling rate, label

23-24 CE903-SU / 23-24_CE903-SU_team06 / New Branch

New Branch

Branch name

Create from

Existing branch name, tag, or commit SHA

Create branch

Cancel

4 - Locate your branch files in google drive

My Drive > 23-24_CE903-SU_team... > notebooks ▾

Type ▾

People ▾

Modified ▾



91% of storage used If you run out, you can't create, edit, and upload files. Get 100 GB of s

Name ↓




01_exploring_data.ipynb



001_Dataset_Preprocessing.ipynb

4 - Save your work back to Gitlab

 START HERE - Get Codes from CSEE GITLAB.ipynb ☆

File Edit View Insert Runtime Tools Help [Last edited on 19 May](#)

Table of contents

Import Libraries

Before You Work - Always Clone GitLab

Begin Working

Finish and Save back to Gitlab

+ Section

+ Code + Text

2. Begin Working

```
[ ] # Write your codes or add files via your google drive
    print(git.git_dir)
```

```
[ ] git.status()
```

Double-click (or enter) to edit

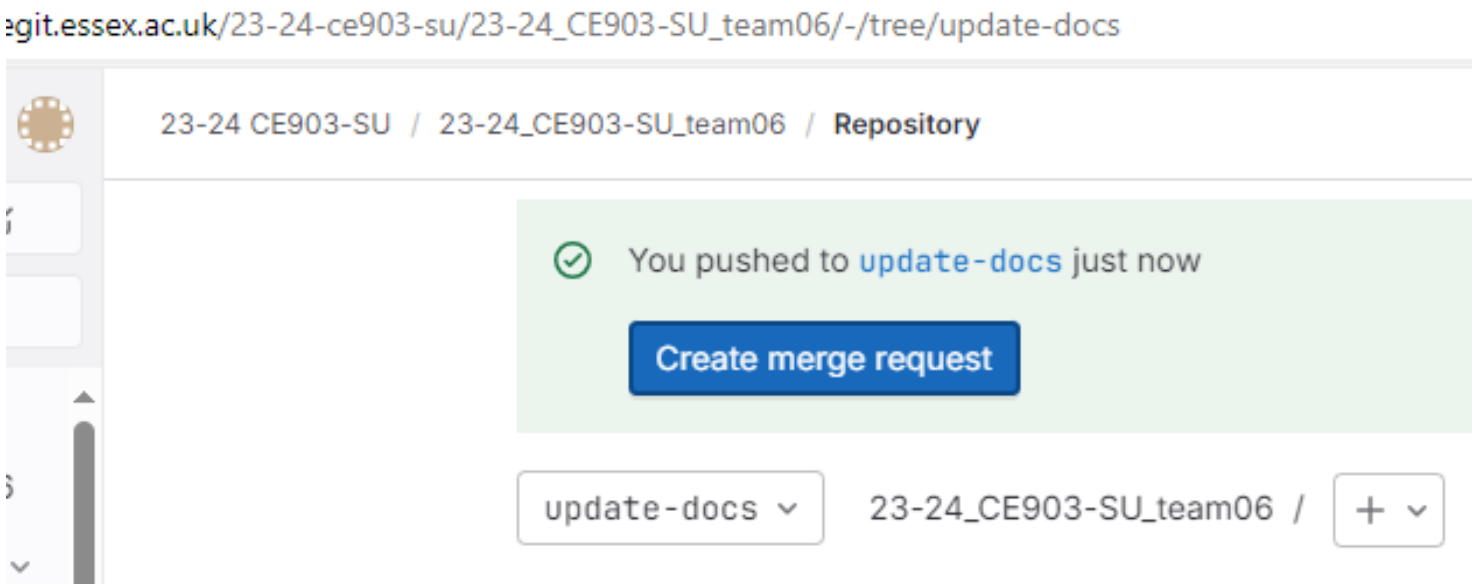
3. Finish and Save back to Gitlab

```
▶ # save your changes back to the repo
  git.commit_and_push()
```

```
↔ Enter your commit message that describes the changes that you have
Output:
Output:
Output:
Output: [data-preprocessing 735d0cd] Data Preprocessing Complete -
3 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 dataset/audio_data_before_framing.feather
create mode 100644 notebooks/001_Dataset_Preprocessing.ipynb
delete mode 100644 notebooks/Data_Preprocessing_001.ipynb
```

```
Output:
Output:
```


5 - Create merge request on Gitlab



New merge request

From `update-docs` into `master` [Change branches](#)

Title (required)

Updated the Readme file to reflect our current reality and included the doc...

☐ Mark as draft
Drafts cannot be merged until marked ready.

Description

Preview | **B** *I* | |

Updated the Readme file to reflect our current reality and included

Switch to rich text editing

Add [description templates](#) to help your contributors to communicate effectively!

Assignees

Thakur, Saurav

[Assign to me](#)

Reviewers

Thakur, Saurav

Approvals are optional.
[Approval rules](#)

Milestone

Select milestone

Labels

Select label

