

Assignment 2

This assignment aims to familiarize with Git and GitHub by creating a project with multiple branches, incorporating the merge concept, generating a README file, and utilizing the .gitignore file for project management.

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- Step 7 - Generate a README file
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- Step 9 - Push Changes to GitHub

Step 1 - Account in GitHub

The screenshot shows the GitHub profile of a user named YameenAli. The profile includes a circular profile picture of a man with a beard and brown hair. Below the picture, the name 'Yameen Ali' is displayed, followed by the username 'YameenAli'. The bio reads 'Computer Science Student | Python, Data Science | Web Development'. There are 2 followers and 1 following. The location is 'Multan' and the time zone is 'UTC +05:00'. The website 'www.yameenali.github' and the GitHub handle 'in/yameenali' are listed. The profile has 14 repositories, 0 projects, 0 packages, and 0 stars. The 'Popular repositories' section shows six repositories: 'developer_form.github.io' (HTML), 'Temperature-Converter' (C++), 'Bootstrap-1' (CSS), 'dropdown-menu' (CSS), 'drop-down' (HTML), and 'My-Portfolio' (CSS). The '5 contributions in the last year' section shows a calendar grid for 2024 with a few green squares indicating contributions. The 'Contribution activity' section shows a bar chart for January 2024 with a peak of 4 commits in one repository.

[Go To Github Repository](#)

Step 2 - Creating a new Repository on Github

- 1- Create a new repository on GitHub with a name Online Cheating Detection.
- 2- Initialize repository with README.md

New repository

Q Type to search

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
[Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner *

Repository name *

YameenAli

Online Cheating Detector

Your new repository will be created as Online-Cheating-Detection-2.

The repository name can only contain ASCII letters, digits, and the characters -, ., and _.

Great repository names are short and memorable. Need inspiration? How about [cautious-octo-engine](#) ?

Description (optional)

Public

Anyone on the internet can see this repository. You choose who can commit.

Private

You choose who can see and commit to this repository.

Initialize this repository with:

Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: None

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License: GNU General Public License v3.0

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)

This will set `main` as the default branch. Change the default name in your [settings](#).

You are creating a public repository in your personal account.

Create repository

After Create Repository, You can see the following Screen

YameenAli / Online-Cheating-Detection

Q Type to search

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Online-Cheating-Detection

Public

Pin

Unwatch 1

Fork

Star 0

main

1 Branch

0 Tags

Go to file

Add file

<> Code

YameenAli Initial commit

44e0fb4 · 2 minutes ago

1 Commits

LICENSE

Initial commit

2 minutes ago

README.md

Initial commit

2 minutes ago

README

GPL-3.0 license

Online-Cheating-Detection

About

No description, website, or topics provided.

Readme

GPL-3.0 license

Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

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Terms

Privacy

Security

Status

Docs

Contact

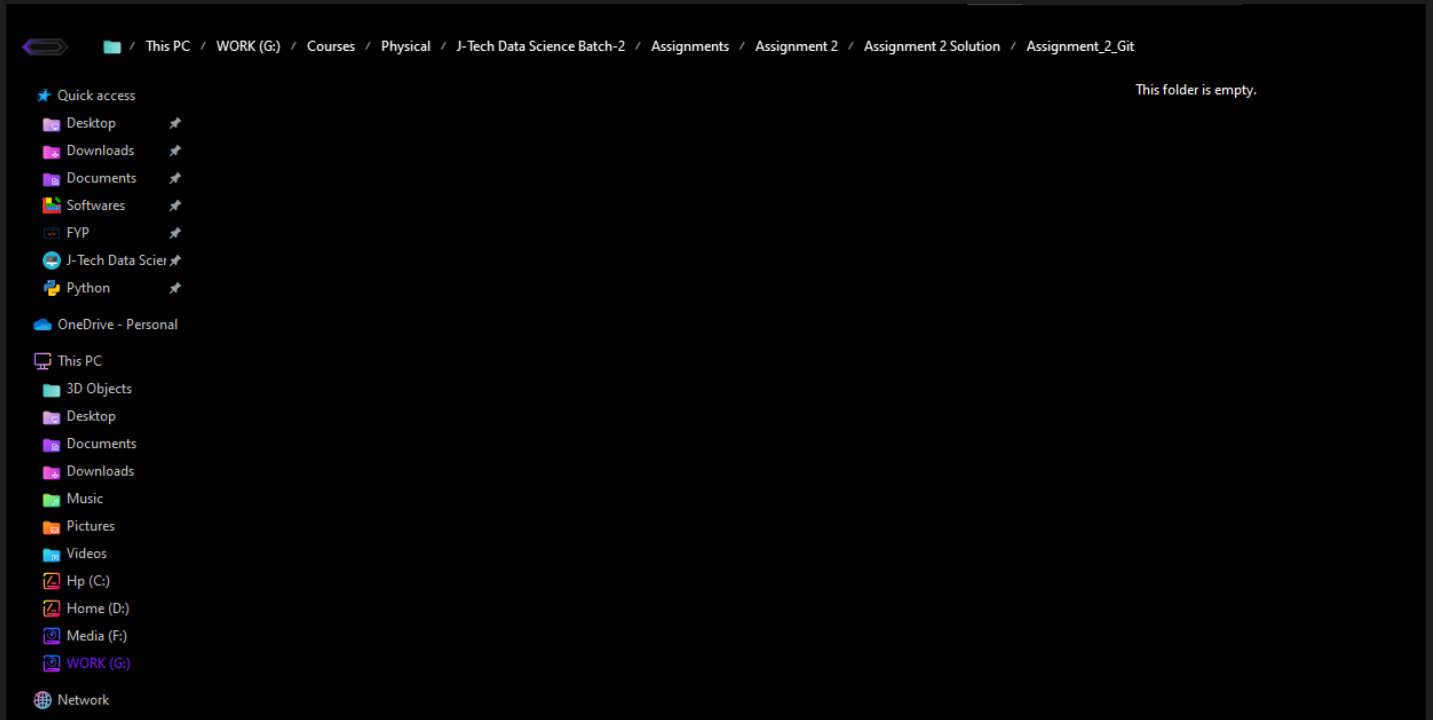
Manage cookies

Do not share my personal information

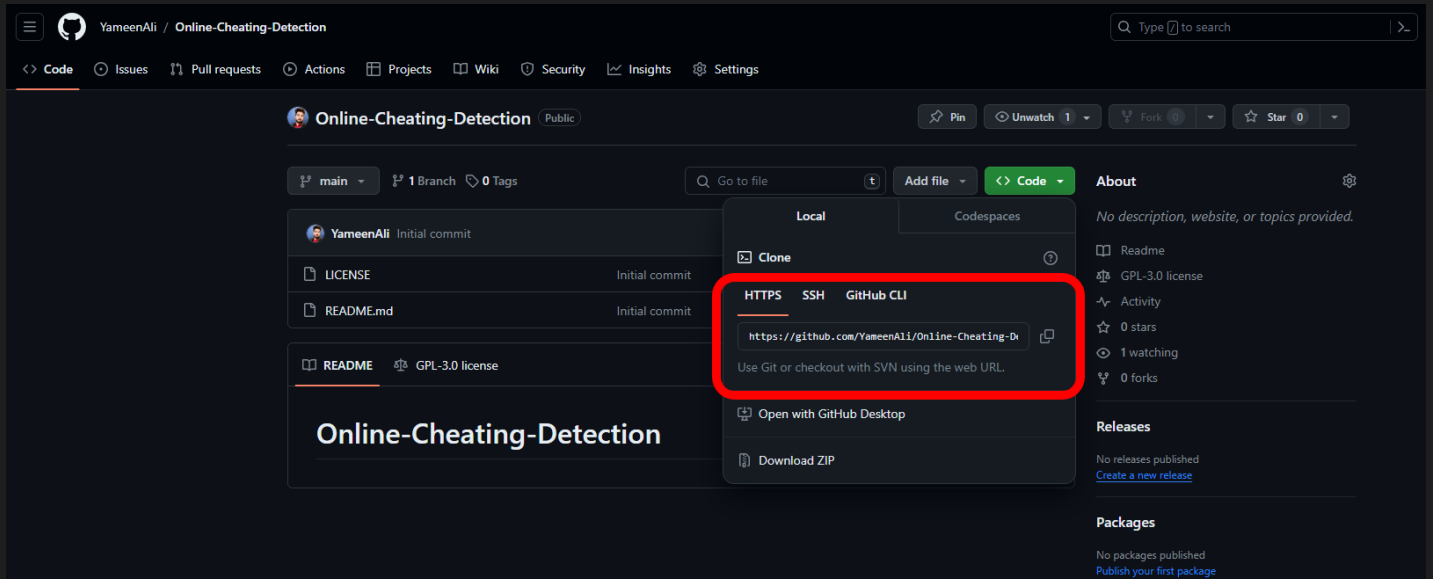
Step 3 - Clone the Repository to local machine

Clone the content from remote repository to local repository

1- Create new Folder Assignment_2_Git

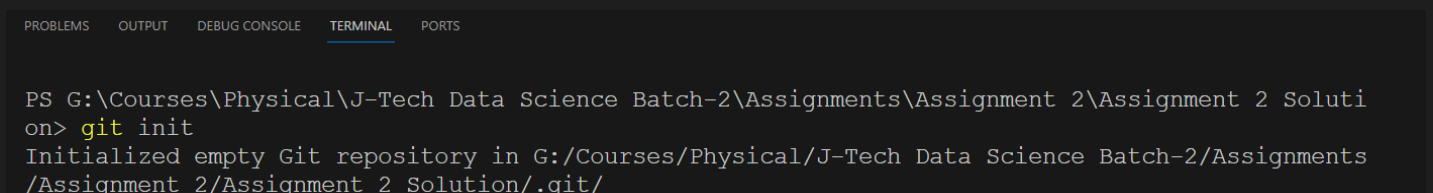


2- Copy the url from here

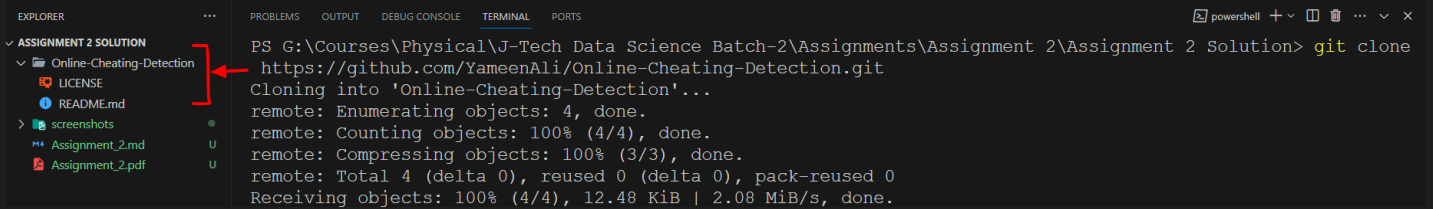


3- To run Git Clone Command in Terminal first we have to run Git init in a folder where we want to initialize and then clone remote repository.

```
Git Init
```



```
Git Clone (paste copied url of remote repository)
```



Step 4 - Create Multiple Branches

Initially we have `main` branch now we have to make more branches

```
git branch (branch_name)
```

I created three branches for my project that are listed below by using above command

Data Collection and Preprocessing Branch

Model Development Branch

Integration and Deployment Branch

```
PS G:\Yameen Ali\Assignment 2 Solution\Online-Cheating-Detection> git branch
Data_Collection_and_Preprocessing
Integration_and_Deployment
Model_Development
* main
```

Step 5 - Commit Changes

Initial Commit `origin/Main`

```
commit 44e0fb4eaaeca2efc6c3885a14be1578a9d9d007 (origin/main, origin/HEAD)
Author: Yameen Ali <77196593+YameenAli@users.noreply.github.com>
Date: Thu Jan 4 21:28:48 2024 +0500
```

Commit in `Main` Branch

```
git commit -m "Initialize the project structure and add the main script (main.py)"
```

```
commit cfcdddea341e32a7927950dfed5e7b32f7b50a888 (HEAD -> main, Model_Development,
Integration_and_Deployment, Data_Collection_and_Preprocessing)
Author: Yameen Ali <yameenshah012@gmail.com>
Date: Wed Jan 10 18:40:41 2024 +0500
```

```
Initialize the project structure and add the main script (main.py)
```

Commit in `Data_Collection_and_Preprocessing` Branch

First we have to checkout from main branch to `Data_Collection_and_Preprocessing` branch

```
git checkout Data_Collection_and_Preprocessing
```

Now we have to commit our changes in this branch

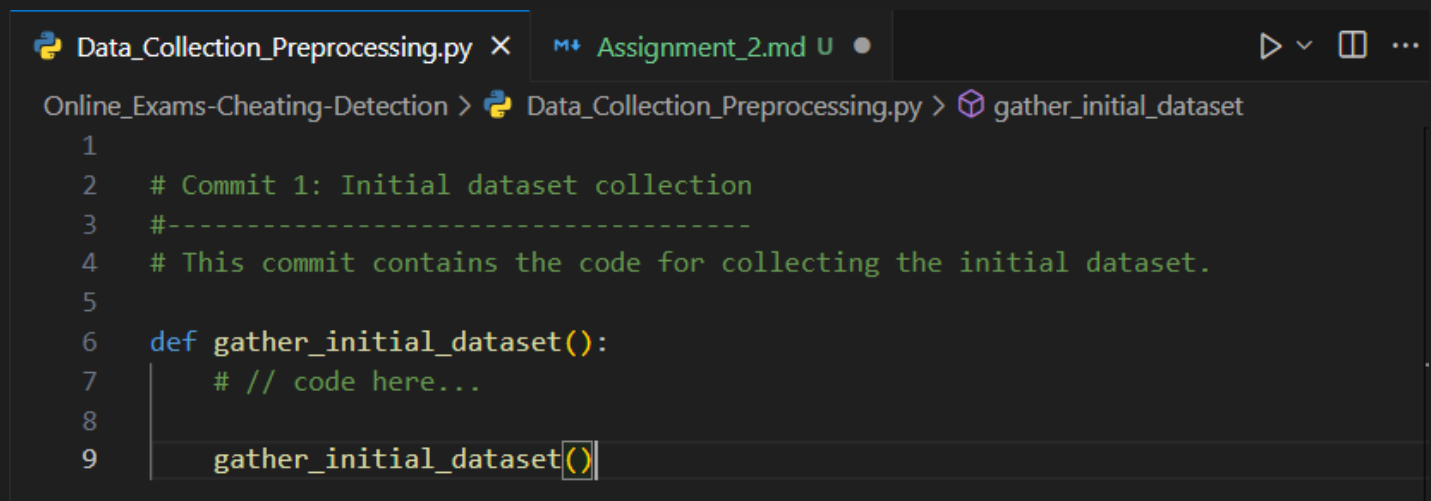
Before committing changes in Git, you need to stage the changes. Staging is the process of preparing and selecting the changes you want to include in the next commit

To add all changes

```
git add .
```

First Commit

```
25e91d34812f019fa9d118a39d867b0af5813760
```



```
Data_Collection_Preprocessing.py X Assignment_2.md U ●
Online_Exams-Cheating-Detection > Data_Collection_Preprocessing.py > gather_initial_dataset
1
2 # Commit 1: Initial dataset collection
3 #-----
4 # This commit contains the code for collecting the initial dataset.
5
6 def gather_initial_dataset():
7     # // code here...
8
9     gather_initial_dataset()
```

```
commit 25e91d34812f019fa9d118a39d867b0af5813760 (HEAD)
```

```
Author: Yameen Ali <yameenshah012@gmail.com>
```

```
Date: Sat Jan 13 02:24:40 2024 +0500
```

```
Gathered initial dataset from external source.
```

Second Commit

```
2b4610414d2ba7d4925e458d3ca989326fa7cce0
```

Online_Exams-Cheating-Detection > Data_Collection_Preprocessing.py > clean_and_preprocess_data

```

1
2  # Commit 1: Initial dataset collection
3  #-----
4  # This commit contains the code for collecting the initial dataset.
5
6  def gather_initial_dataset():
7      # // code here...
8
9      gather_initial_dataset()
10
11
12  # Commit 2: Data cleaning and preprocessing
13  #-----
14  # This commit contains the code for cleaning and preprocessing the dataset.
15
16  def clean_and_preprocess_data():
17      # // code here...
18      clean_and_preprocess_data()

```

commit 2b4610414d2ba7d4925e458d3ca989326fa7cce0 (HEAD, Data_Collection_Preprocessing)

Author: Yameen Ali <yameenshah012@gmail.com>

Date: Sat Jan 13 02:31:58 2024 +0500

Data cleaning and preprocessing

Commit in Model_Development Branch

First we have to checkout from Data_Collection_Preprocessing branch to Model_Development branch

Now we have to commit our changes in this branch

First Commit

e020febad8973247f38050264878624b0de877f8

Online_Exams-Cheating-Detection > Model_Development.py > ...

```

1
2  # Commit 1: Initial implementation of the cheating detection model
3
4  def initial_model_implementation():
5      # //code here ...

```

PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git log

commit e020febad8973247f38050264878624b0de877f8 (HEAD -> Model_Development)

Author: Yameen Ali <yameenshah012@gmail.com>

Date: Sun Jan 21 20:19:32 2024 +0500

Initial implementation of the cheating detection model

Second Commit

58afaa8ada4d19bab67657322aa76355cafa3697

Assignment_2.md U

Model_Development.py 1 X

▶ ▢ ...

Online_Exams-Cheating-Detection > Model_Development.py > ...

```
1
2 # Commit 1: Initial implementation of the cheating detection model
3
4 def initial_model_implementation():
5     # //code here ...
6
7
8
9
10 # Commit 2: Hyperparameter tuning or additional model development steps
11
12 | # //code here ...
```

```
commit 58afaa8ada4d19bab67657322aa76355cafa3697 (HEAD -> Model_Development)
Author: Yameen Ali <yameenshah012@gmail.com>
Date: Sun Jan 21 20:25:55 2024 +0500
```

Hyperparameter tuning or additional model development steps

Commit in Integration_and_Deployment Branch

First we have to checkout from Model_Development branch to Integration_and_Deployment branch

Now we have to commit our changes in this branch

First Commit

f6f702f116367b9e85514a66c25dac10e603a3de

Assignment_2.md U

Integration_and_Deployment.py 1 X

▢ ...

Online_Exams-Cheating-Detection > Integration_and_Deployment.py > integration_deployment_branch > integr

```
1 def integration_deployment_branch():
2     print("Integration and Deployment Branch")
3
4     # Commit 1: Integration of the cheating detection model
5     def integrate_and_deploy()
```

```
PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git log
commit f6f702f116367b9e85514a66c25dac10e603a3de (HEAD -> Integration_and_Deployment)
Author: Yameen Ali <yameenshah012@gmail.com>
Date: Sun Jan 21 20:38:28 2024 +0500
```

Integration of the cheating detection model

Second Commit

```
fa262f3bd6fe03cff3b6edc845296c2d37f4e881
```

```
PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git log
commit fa262f3bd6fe03cff3b6edc845296c2d37f4e881 (HEAD -> Integration_and_Deployment)
Author: Yameen Ali <yameenshah012@gmail.com>
Date: Sun Jan 21 20:43:24 2024 +0500
```

Additional steps for deployment or system integration

```
commit f6f702f116367b9e85514a66c25dac10e603a3de
Author: Yameen Ali <yameenshah012@gmail.com>
Date: Sun Jan 21 20:38:28 2024 +0500
```

Integration of the cheating detection model

Step 6 - Merge Branches

Start with the Main Branch

Ensure you are on the Main branch:

```
git checkout main
```

```
PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git branch
Data_Collection_Preprocessing
Integration_and_Deployment
Model_Development
* main
```

Merge Data_Collection_Preprocessing Branch

```
git merge Data_Collection_Preprocessing
```

Merge Model_Development Branch

```
git merge Model_Development
```

Merge Integration_and_Deployment Branch

```
git merge Integration_and_Deployment
```



```
PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git merge Data_Collection_Preprocessing
Updating cfcdeea..2b46104
Fast-forward
 Data_Collection_Preprocessing.py | 18 ++++++
 1 file changed, 18 insertions(+)
 create mode 100644 Data_Collection_Preprocessing.py
PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git merge Model_Development
Merge made by the 'ort' strategy.
 Model_Development.py | 12 ++++++
 1 file changed, 12 insertions(+)
 create mode 100644 Model_Development.py
PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git merge Integration_and_Deployment
Merge made by the 'ort' strategy.
 Integration_and_Deployment.py | 11 ++++++
 1 file changed, 11 insertions(+)
 create mode 100644 Integration_and_Deployment.py
```

Step 7 - Generate a README file

In the Main Branch

Assignment_2.md U • README.md M X

ne Cheating Detection > ## Overview of Branches > ### Integration_and_Deployment Branch

1 # Online Cheating Detection

2

3 This project aims to develop a system for detecting cheating in

4 online exams. The system analyzes various factors and patterns

5 to identify potential cheating behaviors and provide insights

6 to instructors.

7

8 ## Features

9

10 - Real-time monitoring of exam sessions

11 - Detection of suspicious activities such as copy-pasting,

12 switching tabs, or accessing unauthorized resources

13 - Automated flagging and alerting of potential cheating

14 incidents

15 - Detailed reports and analytics for instructors to review exam

16 integrity

17

18 ## Installation

19

20 1. Clone the repository: `git clone https://github.com/`

21 `YameenAli/Online_Exams-Cheating-Detection.git`

22 2. Install the required dependencies: `npm install`

23 3. Configure the database connection in `config.js`

24 4. Start the application: `npm start`

Preview README.md X

Online Cheating Detection

This project aims to develop a system for detecting cheating in online exams. The system analyzes various factors and patterns to identify potential cheating behaviors and provide insights to instructors.

Features

- Real-time monitoring of exam sessions
- Detection of suspicious activities such as copy-pasting, switching tabs, or accessing unauthorized resources
- Automated flagging and alerting of potential cheating incidents
- Detailed reports and analytics for instructors to review exam integrity

Installation

- Clone the repository: `git clone https://github.com/YameenAli/Online_Exams-Cheating-Detection.git`
- Install the required dependencies: `npm install`
- Configure the database connection in `config.js`

commit into main

```
PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git commit -m "Add project overview to README"
[main 3493e73] Add project overview to README
 2 files changed, 59 insertions(+), 2 deletions(-)
PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git log
commit 3493e73798959c2902f50a597fd41f6815f72cfa (HEAD -> main)
Author: Yameen Ali <yameenshah012@gmail.com>
Date: Sun Jan 21 22:12:37 2024 +0500

    Add project overview to README
```

Step 8 - Add .gitignore file

ASSIGNMENT 2 SOLUTION

Online_Exams-Cheating-Detection

.gitignore U

Data_Collection_Preprocessing.py

Integration_and_Deployment.py

LICENSE

main.py

Model_Development.py

README.md

Online_Exams-Cheating-Detection > .gitignore

1 # .gitignore for Online Exams Cheating Detection project

2

3 Python version: 3.12.1

4

5 # Ignore data files (adjust patterns based on your actual data file extensions)

6 data/

7 *.csv

8 *.xlsx

9

Step 9 - Push Changes to GitHub

```
git push origin main
```

```
PS E:\Yameen Ali\Assignment 2 Solution\Online_Exams-Cheating-Detection> git push origin main
Enumerating objects: 31, done.
Counting objects: 100% (31/31), done.
Delta compression using up to 4 threads
Compressing objects: 100% (29/29), done.
Writing objects: 100% (29/29), 4.20 KiB | 477.00 KiB/s, done.
Total 29 (delta 14), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (14/14), done.
remote: This repository moved. Please use the new location:
remote:   https://github.com/YameenAli/Online_Exams-Cheating-Detection.git
To https://github.com/YameenAli/Online-Cheating-Detection.git
 44e0fb4..3493e73  main -> main
```

Online_Exams-Cheating-DetectionPublic

Pin

Unwatch1

Fork0

Star0

main1 Branch0 Tags

Go to file

Add file

Code

YameenAli

Add project overview to README

3493e73 · 6 hours ago

11 Commits

Data_Collection_Preprocessing.py	Data cleaning and preprocessing	last week
Integration_and_Deployment.py	Add project overview to README	6 hours ago
LICENSE	Initial commit	2 weeks ago
Model_Development.py	Hyperparameter tuning or additional model development st...	7 hours ago
README.md	Add project overview to README	6 hours ago
main.py	Initialize the project structure and add the main script (main....	2 weeks ago

READMEGPL-3.0 license

Online Cheating Detection

This project aims to develop a system for detecting cheating in online exams. The system analyzes various factors and patterns to identify potential cheating behaviors and provide insights to instructors.

Features

- Real-time monitoring of exam sessions
- Detection of suspicious activities such as copy-pasting, switching tabs, or accessing unauthorized resources
- Automated flagging and alerting of potential cheating incidents
- Detailed reports and analytics for instructors to review exam integrity

Installation

- Clone the repository: `git clone https://github.com/YameenAli/Online_Exams-Cheating-Detection.git`
- Install the required dependencies: `npm install`
- Configure the database connection in `config.js`
- Start the application: `npm start`

Usage

- Login to the system as an instructor or administrator.
- Create an exam and configure the settings.
- Share the exam link with the students.
- Monitor the exam sessions in real-time.
- Review the cheating detection reports and take necessary actions.

About

No description, website, or topics provided.

Readme

GPL-3.0 license

Activity

0 stars

1 watching

0 forks

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Languages

Python

100.0%

Suggested workflows

Based on your tech stack

Python package

Configure

Create and test a Python package on multiple Python versions.

PyLint

Configure

Lint a Python application with pylint.

Python Package using Anaconda

Configure

Create and test a Python package on multiple Python versions using Anaconda for package management.

More workflows

Dismiss suggestions