

AI TRENDS
Lab Exercise – 3

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CDAC – NOIDA
PGDAI

ASSIGNMENT

Name : ADVAIT GURUNATH CHAVAN
Email ID : advaitchavan135@gmail.com

Q. Create a Jenkins Job in a
(i) freestyle Type

Q. Demonstrate the following

(i) Build Triggers w.r.t SCM

(ii) Integration with Git

Create a Repository on Git and connect the created branch b1 with the Jenkins and ensure the automation on the build via any changes pushed to the github.

Q. Create a Jenkins Job in a
(ii) pipeline Type

```
C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE 3 -- AI TRENDS\jenkins>java -jar jenkins.war
Running from: C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE 3 -- AI TRENDS\jenkins\jenkins.war
webroot: C:\Users\Advait\.jenkins\war
2025-04-12 08:06:10.785+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2025-04-12 08:06:11.347+0000 [id=1] WARNING o.e.j.ee9.nested.ContextHandler#setContextPath: Empty contextPath
2025-04-12 08:06:11.560+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-12.0.17; built: 2025-03-03T13:15:05.903Z; git: 14d19c268e4cb09afc312b5255a4cbb7a95c5cb6; jvm 17.0.12+8-LTS-286
2025-04-12 08:06:22.109+0000 [id=1] INFO o.e.j.e.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.ee9.jsp.JettyJspServlet
2025-04-12 08:06:22.620+0000 [id=1] INFO o.e.j.s.DefaultSessionIdManager#doStart: Session workerName=node0
2025-04-12 08:06:30.117+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: C:\Users\Advait\.jenkins found at: $user.home/.jenkins
2025-04-12 08:06:32.288+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started oeje9n.ContextHandler$CoreContextHandler@751e664e{Jenkins v2.492.3,/b=file:///C:/Users/Advait/.jenkins/war/,a=AVAILABLE,h=oeje9n.ContextHandler$CoreContextHandler$CoreToNestedHandler@160c3ec1{STARTED}}
2025-04-12 08:06:32.734+0000 [id=1] INFO o.e.j.server.AbstractConnector#doStart: Started ServerConnector@47a64f7d{HTTP/1.1,(http/1.1)}{0.0.0.0:8080}
2025-04-12 08:06:32.996+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: Started oejs.Server@619713e5{STARTING}[12.0.17,sto=0] @26442ms
2025-04-12 08:06:32.996+0000 [id=26] INFO winstone.Logger#logInternal: Winstone Servlet Engine running: controlPort=disabled
2025-04-12 08:06:35.771+0000 [id=25] INFO jenkins.model.Jenkins<init>: Starting version 2.492.3
2025-04-12 08:06:37.672+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttained: Started initialization
2025-04-12 08:06:44.975+0000 [id=36] INFO jenkins.InitReactorRunner$1#onAttained: Listed all plugins
2025-04-12 08:07:14.817+0000 [id=35] INFO jenkins.InitReactorRunner$1#onAttained: Prepared all plugins
2025-04-12 08:07:15.175+0000 [id=37] INFO jenkins.InitReactorRunner$1#onAttained: Started all plugins
2025-04-12 08:07:15.207+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: Augmented all extensions
2025-04-12 08:07:17.990+0000 [id=33] INFO h.p.b.g.GlobalTimeOutConfiguration#load: global timeout not set
2025-04-12 08:07:25.422+0000 [id=35] INFO jenkins.InitReactorRunner$1#onAttained: System config loaded
2025-04-12 08:07:25.422+0000 [id=35] INFO jenkins.InitReactorRunner$1#onAttained: System config adapted
2025-04-12 08:07:25.796+0000 [id=35] INFO jenkins.InitReactorRunner$1#onAttained: Loaded all jobs
2025-04-12 08:07:25.824+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: Configuration for all jobs updated
2025-04-12 08:07:26.032+0000 [id=37] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
2025-04-12 08:07:26.194+0000 [id=25] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
```

+ New Item

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

0/2

Add description

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job



Set up a distributed build

Set up an agent



Configure a cloud



Learn more about distributed builds



New Item

Enter an item name

Freestyle_Git_Job

Select an item type



Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.



Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.



Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.



Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a

OK

Configure

- General
- Source Code Management
- Triggers
- Environment
- Build Steps
- Post-build Actions

General

Enabled ☒

Description

Plain text [Preview](#)

- ☐ Discard old builds ?
- ☐ GitHub project
- ☐ This project is parameterized ?
- ☐ Throttle builds ?
- ☐ Execute concurrent builds if necessary ?

Advanced ☐

Save

Apply

Configure

- General
- Source Code Management
- Triggers
- Environment
- Build Steps**
- Post-build Actions

☐ With Ant ?

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

≡ **Execute shell** ?

Command

See [the list of available environment variables](#)

Advanced ▾

Add build step ▾

Save

Apply

Configure

- General
- Source Code Management
- Triggers
- Environment
- Build Steps**
- Post-build Actions

☐ With Ant ?

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

 **Execute shell** ?

Command

See [the list of available environment variables](#)

```
echo "Building project..."
```

Advanced ▾

Add build step ▾

Save

Apply

- Status
- Changes
- Workspace
- Build Now
- Configure
- Delete Project
- Rename

Freestyle_Git_Job

Add description

Permalinks

Builds

No builds

Configure

- General
- Source Code Management**
- Triggers
- Environment
- Build Steps
- Post-build Actions

☐ None ?

☐ Git ?

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

☐ Trigger builds remotely (e.g., from scripts) ?

☐ Build after other projects are built ?

☐ Build periodically ?

☐ GitHub hook trigger for GITScm polling ?

☒ Poll SCM ?

Schedule ?

No schedules so will only run due to SCM changes if triggered by a post-commit hook

☐ Ignore post-commit hooks ?

Save

Apply

Configure

- General
- Source Code Management**
- Triggers
- Environment
- Build Steps
- Post-build Actions

☐ None

☐ Git ?

Triggers

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☐ Build periodically ?

☐ GitHub hook trigger for GITScm polling ?

☒ Poll SCM ?

Schedule ?

H/5 ****

No schedules so will only run due to SCM changes if triggered by a post-commit hook

☐ Ignore post-commit hooks ?

Save

Apply

ADVAIT135 / CDAC

Type to search

Code

Issues

Pull requests

Actions

Projects

Security 1

Insights

Settings

CDAC Public

main 1 Branch 0 Tags

Go to file

Add file

Code

ADVAIT135 Create README.md

1. Python Programming CDAC Module 1 -- P

2. Fundamentals of Artificial Intelligence FUNDAMENTAL OF

3. AI TRENDS Create README.md

LICENSE Create LICENSE

README.md Initial commit

Clone

HTTPS SSH GitHub CLI

Copy url to clipboard

https://github.com/ADVAIT135/CDAC.git

Clone using the web URL.

Open with GitHub Desktop

Download ZIP

About

This Repository consists of all lab exercises, assignments done during the CDAC DAI online course from March 2025 to Aug 2025

mathematics

pandas

python3

artificial-intelligence

dai

cdac

cdac-noida

Readme

GPL-3.0 license

Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

CDAC

This Repository consists of all lab exercises, assignments done during the CDAC DAI online course from March 2025 to Aug 2025

Type here to search | Desktop | 13:48 12-04-2025

Configure

- General
- Source Code Management**
- Triggers
- Environment
- Build Steps
- Post-build Actions

Repository URL ?

Credentials ?

- none -

+ Add

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

Add Branch

Save

Apply

ADVAIT135 / CDAC

Type / to search

<> Code Issues Pull requests Actions Projects Security 1 Insights Settings

CDAC Public

Pin Unwatch 1 Fork 0 Star 0

b1 2 Branches 0 Tags

Go to file Add file <> Code

This branch is up to date with main . Contribute

ADVAIT135 Create README.md 06e1325 · 4 minutes ago 29 Commits

1. Python Programming	CDAC Module 1 -- Python Programming -- Lab Exercise 11	3 weeks ago
2. Fundamentals of Artificial Intelligence	FUNDAMENTAL OF ARTIFICIAL INTELLIGENCE __ LAB EXERCI...	yesterday
3. AI TRENDS	Create README.md	4 minutes ago
LICENSE	Create LICENSE	last month
README.md	Initial commit	last month

README License

CDAC

About

This Repository consists of all lab exercises, assignments done during the CDAC DAI online course from March 2025 to Aug 2025

mathematics pandas python3 artificial-intelligence dai cdac cdac-noida

Readme GPL-3.0 license Activity 0 stars 1 watching 0 forks

Releases

No releases published

Type here to search Desktop 13:52 12-04-2025

MINGW64: c:/Users/Advait/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3

```
Advait@LAPTOP-VJLK9EIV MINGW64 ~  
$ cd Desktop  
  
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop  
$ cd CDAC  
  
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC  
$ cd "ASSIGNMENT -- SOLUTIONS"  
bash: cd: ASSIGNMENT -- SOLUTIONS: No such file or directory  
  
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC  
$ cd "ASSIGNMENTS -- SOLUTIONS"  
  
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS  
$ cd "MODULE 3 -- AI TRENDS"  
  
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS  
$ cd "ASSIGNMENT_3"  
  
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3  
$ ls  
'~$AI TRENDS _ LAB EXERCISE _ 3.pptx'  'AI TRENDS _ LAB EXERCISE _ 3.pptx'  
  
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3  
$
```

File Explorer window showing the contents of the folder **ASSIGNMENT_3**.

Address bar: **C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE 3 -- AI TRENDS\ASSIGNMENT_3**

Search bar: **Search ASSIGNMENT_3**

File Explorer ribbon tabs: **File**, **Home**, **Share**, **View**

File Explorer ribbon groups:

- Clipboard**: Pin to Quick access, Copy, Paste, Cut, Copy path, Paste shortcut
- Organize**: Move to, Copy to, Delete, Rename
- New**: New folder, New item, Easy access
- Open**: Properties, Open, Edit, History
- Select**: Select all, Select none, Invert selection

Left sidebar (Quick access):

- Desktop
- Downloads
- Documents
- Pictures
- Google Drive
- G:\
- ADVAIT -- GURU AC
- ASSIGNMENT_1
- ASSIGNMENT_2
- MODULE 2 -- FUND
- OneDrive - Personal
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows (C:)
- Network
- Linux

File list:

Name	Date modified	Type	Size
AI TRENDS _ LAB EXERCISE _ 3.pptx	12-04-2025 13:56	Microsoft PowerPo...	2,954 KB

1 item

```
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3
$ git clone https://github.com/ADVAIT135/CDAC.git
Cloning into 'CDAC'...
remote: Enumerating objects: 139, done.
remote: Counting objects: 100% (139/139), done.
remote: Compressing objects: 100% (128/128), done.
remote: Total 139 (delta 39), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (139/139), 31.88 MiB | 3.79 MiB/s, done.
Resolving deltas: 100% (39/39), done.
```

The screenshot shows a Windows File Explorer window titled 'ASSIGNMENT_3'. The address bar displays the path: `C:\Users\Advait\Desktop\CDAC\ASSIGNMENTS -- SOLUTIONS\MODULE 3 -- AI TRENDS\ASSIGNMENT_3`. The left sidebar shows 'Quick access' with links to Desktop, Downloads, Documents, Pictures, Google Drive, G:\, and ADVAIT -- GURU AC. The main area displays a table of files and folders:

Name	Date modified	Type	Size
CDAC	12-04-2025 13:57	File folder	
AI TRENDS _ LAB EXERCISE _ 3.pptx	12-04-2025 13:57	Microsoft PowerPo...	3,142 KB


```
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3/CDAC (main)
$
```

```
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3/CDAC (main)
$ git checkout -b b1
Switched to a new branch 'b1'
```

```
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3/CDAC (b1)
$ git add .
```

```
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3/CDAC (b1)
$ git commit -m "Initial commit on b1 branch"
On branch b1
nothing to commit, working tree clean
```

New Item

Enter an item name

Select an item type



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Folder

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Configure

General

Triggers

Pipeline

Advanced

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

<https://github.com/ADVAIT135/CDAC.git>

Credentials ?

- none -

+ Add

Advanced

Save

Apply

Configure

General

Triggers

Pipeline

Advanced

Repository URL ?

Credentials ?

- none -

+ Add

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

Add Branch

Save

Apply

```
Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3/CDAC (b1)
$ git checkout -b b2
Switched to a new branch 'b2'

Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3/CDAC (b2)
$ git add .

Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3/CDAC (b2)
$ git commit -m "Initial commit on b2 branch"
On branch b2
nothing to commit, working tree clean

Advait@LAPTOP-VJLK9EIV MINGW64 ~/Desktop/CDAC/ASSIGNMENTS -- SOLUTIONS/MODULE 3 -- AI TRENDS/ASSIGNMENT_3/CDAC (b2)
$
```

+ New Item

Build History

Manage Jenkins

My Views

Add description

All

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☁	Freestyle_Git_Job	26 sec #10	7 min 35 sec #8	6.7 sec
✓	☁	Pipeline_Project	55 sec #5	3 min 14 sec #4	51 sec

Build Queue

No builds in the queue.

Build Executor Status

(0 of 2 executors busy)

Icon: S M L

CDAC Public

Pin | Unwatch 1 | Fork 0 | Star 0

b1 had recent pushes 10 seconds ago

Compare & pull request

About

This Repository consists of all lab exercises, assignments done during the CDAC DAI online course from March 2025 to Aug 2025

b1 | 2 Branches | 0 Tags

Go to file

Add file

<> Code

This branch is 1 commit ahead of main

ADVAIT135 new file: Jenkinsfile

- 1. Python Programming CDAC Module 1 -- Python Pro
- 2. Fundamentals of Artificial Intelligence FUNDAMENTAL OF ARTIFICIAL
- 3. AI TRENDS Create README.md
- Jenkinsfile new file: Jenkinsfile
- LICENSE Create LICENSE
- README.md Initial commit
- test_1.txt new file: Jenkinsfile

README | License

test_1.txt - Notepad

```
File Edit Format View Help
for and to
This is my first push using jenkins
```