



# Create a complete CI/CD pipeline using GitHub, Webhooks, Docker, ngrok, and Jenkins

#### **Prerequisites:**

VS Code

VS Code Extension – Python

GitHub

Docker

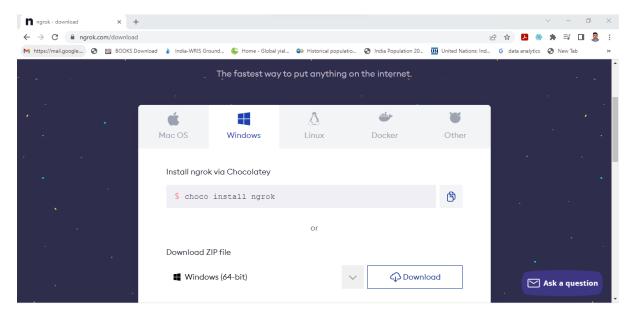
**Jenkins** 

### **Step 1 - 5**

Follow the same steps (1-5) from activity 3

## Step 6

**Install ngrok software** 



### Step 7

**Expose IP and Port** 

Note:

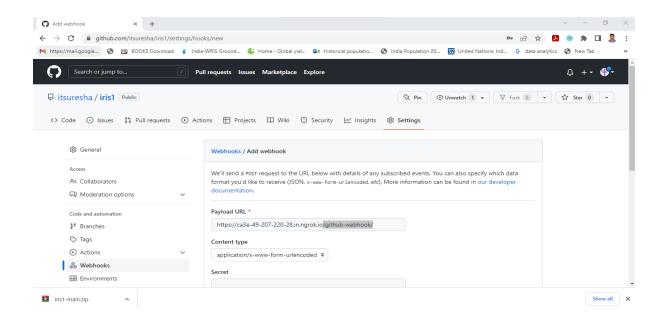
 $Run: ngrok\ http\ 8080\ /\ ngrok\ http\ 80$ 



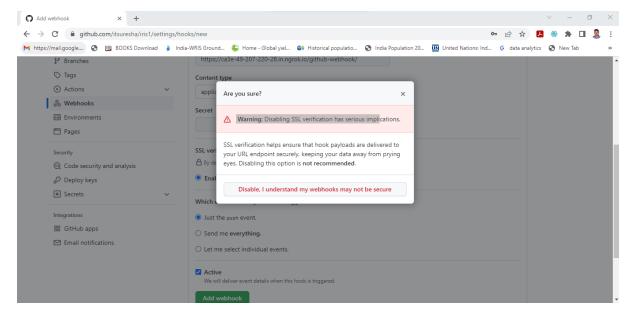


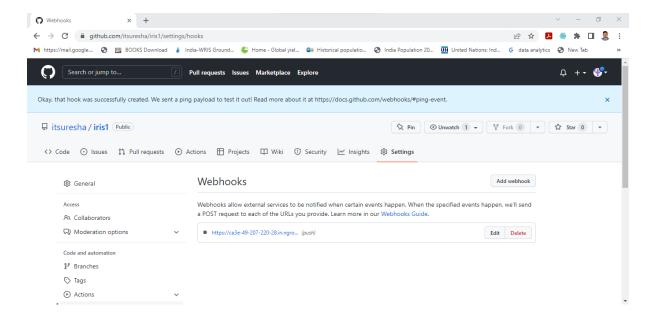
### Step 8

#### Webhook Configuration in GitHub









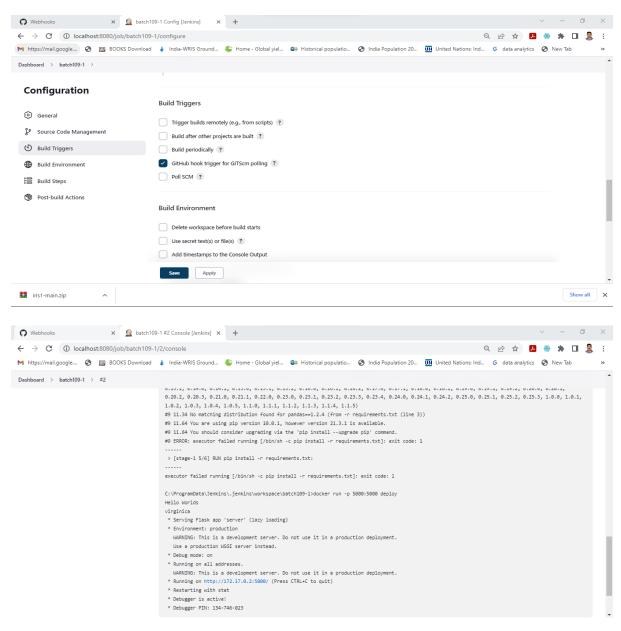
# Step 9

Integration of Webhook with Jenkins

#### Note

Build the project after the configuration

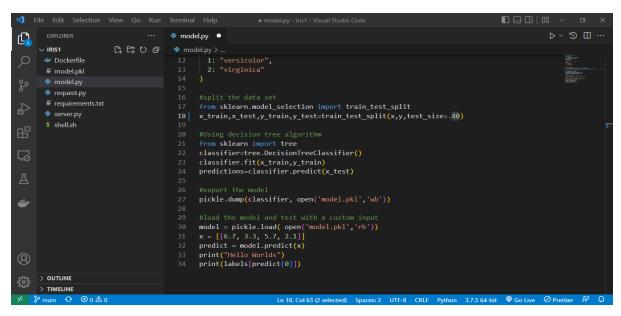




### **Step 10**

Clone your project from GitHub





```
Microsoft Windows [Version 10.0.22000.829]
(c) Microsoft Corporation. All rights reserved.

C:\Users\itsur\git clone https://github.com/itsuresha/iris1.git
Cloning into 'iris1'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 9 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (9/9), done.

C:\Users\itsur\git add model.py
fatal: not a git repository (or any of the parent directories): .git

C:\Users\itsur\ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\itsur\iris1>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\itsur\iris1>git add model.py
```



C:\Users\itsur\iris1>git add model.py

C:\Users\itsur\iris1>git commit -m "test percentage changed1"
[main 9d5c40d] test percentage changed1
1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\itsur\iris1>git push
Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 4 threads

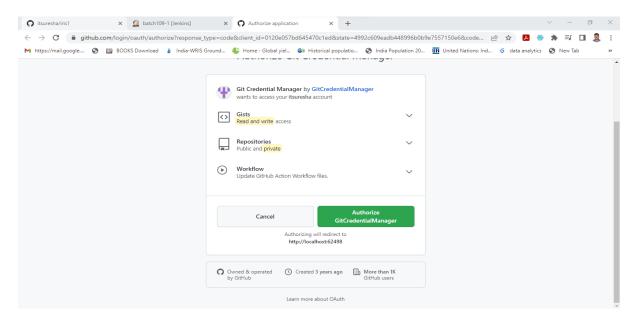
Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 299 bytes | 299.00 KiB/s, done.

Total 3 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), completed with 2 local objects.

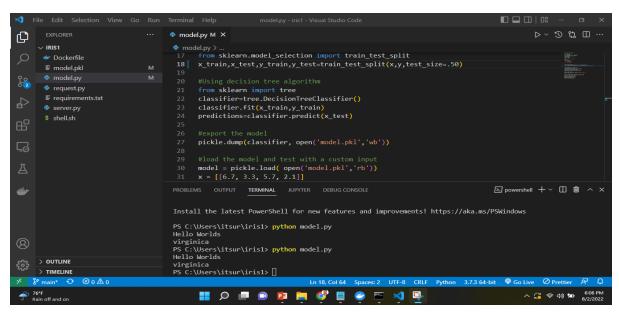
To https://github.com/itsuresha/iris1.git
 bb176e9..9d5c40d main -> main

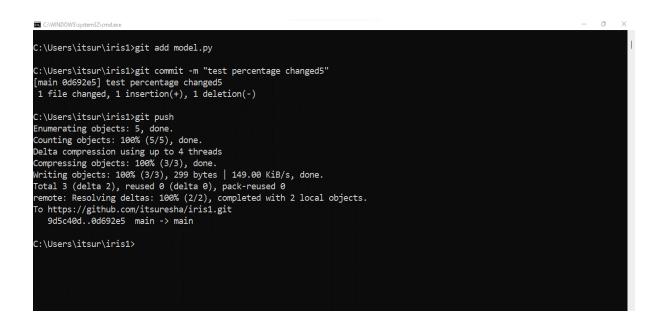


# **Step 11**

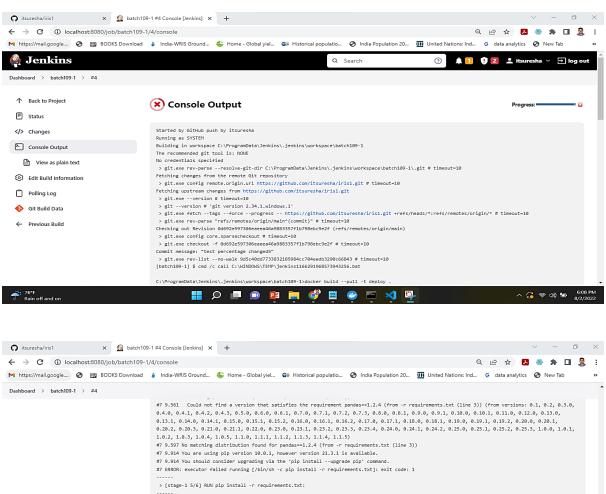
Triggering CI/CD











executor failed running [/bin/sh -c pip install -r requirements.txt]: exit code: 1 C:\ProgramData\Jenkins\.jenkins\workspace\batch109-1>docker run -p 5000:5000 deploy

Hello Morids

"Yigfinica

" Serving Flask app 'server' (lazy loading)

" Environment: production

MARNIMS: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

\* Debug mode: on 
\*Running on all addresses.

WARNING: This is a development server. Do not use it in a production deployment.

\*Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)

\*Restarting with stat

\*Debugger is active!

Hello Worlds

\* Debug mode: on

\* Debugger PIN: 458-910-377



