

GIT Understanding

Dr. A. Suresh, INSOFE

A screenshot of a web browser window. The address bar shows 'git-scm.com/downloads'. The page content is the 'Downloads' section of the Git website, featuring links for macOS, Windows, and Linux/Unix. To the right, there's a large image of a computer monitor displaying the latest source release version 2.37.0.



git --local-branching-on-the-cheap



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GUI Clients

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Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads



macOS



Windows



Linux/Unix

Older releases are available and the [Git source repository](#) is on GitHub.

GUI Clients

Git comes with built-in GUI tools (`git-gui`, `gitk`), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

Latest source Release

2.37.0

[Release Notes \(2022-06-27\)](#)

[Download for Windows](#)

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

Git - Downloading Package x +

git-scm.com/download/win

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git --fast-version-control

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GUI Clients
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The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Download for Windows

[Click here to download](#) the latest **(2.37.0)** 64-bit version of **Git for Windows**. This is the most recent [maintained build](#). It was released **7 days ago**, on **2022-06-27**.

Other Git for Windows downloads

[Standalone Installer](#)
[32-bit Git for Windows Setup.](#)
[64-bit Git for Windows Setup.](#)
[Portable \("thumbdrive edition"\)](#)
[32-bit Git for Windows Portable.](#)
[64-bit Git for Windows Portable.](#)

Using winget tool

Install [winget tool](#) if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version **2.37.0**. If you want the newer version, you can build it from [the source code](#).

MINGW64:/c/Users/itsuresha

```
itsuresha@DESKTOP-IEFNU6I MINGW64 ~
$ git --version
git version 2.37.0.windows.1
```

```
itsuresha@DESKTOP-IEFNU6I MINGW64 ~
$ git config --global user.name "itsuresha"
```

```
itsuresha@DESKTOP-IEFNU6I MINGW64 ~
$ git config --global user.email "it.suresh.a@gmail.com"
```

```
itsuresha@DESKTOP-IEFNU6I MINGW64 ~
$
```

Command Prompt

Microsoft Windows [Version 10.0.25140.1000]
(c) Microsoft Corporation. All rights reserved.

C:\Users\itsuresha>git --version
git version 2.37.0.windows.1

C:\Users\itsuresha>git config --global user.name "itsuresha"

C:\Users\itsuresha>git config --global user.email "it.suresh.a@gmail.com"

C:\Users\itsuresha>

Terminal Shell Edit View Window Help

Tue 5 Jul 12:12 PM

dr.suresha — zsh — 105x23

```
Last login: Tue Jul  5 11:16:06 on ttys000
(base) dr.suresha@Drsuresh-A-MacBook-Air ~ % git --version
git version 2.37.0
(base) dr.suresha@Drsuresh-A-MacBook-Air ~ % git config --global user.name "itsuresha"
(base) dr.suresha@Drsuresh-A-MacBook-Air ~ % git config --global user.email "it.suresh.a@gmail.com"
(base) dr.suresha@Drsuresh-A-MacBook-Air ~ %
```

github.com

https://mail.google.com BOOKS Download India-WRIS Grou... Home - Global yie... Historical populati... India Population 2... United Nations: In... data analytics

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Recent Repositories [New](#)

Find a repository...

itsuresha/firstrepo
itsuresha/new

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

Following For you Beta

Introduce yourself

The easiest way to introduce yourself on GitHub is by creating a README in a repository about you! You can start here:

itsuresha / README.md

```
1 - 🌟 Hi, I'm @itsuresha
2 - 💡 I'm interested in ...
3 - 🚧 I'm currently learning ...
4 - ❤️ I'm looking to collaborate on ...
5 - 📩 How to reach me ...
6
```

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Discover interesting projects and people to populate your personal news feed.

 Our response to the war in Ukraine

GitHub is united with the people of Ukraine and the international community.

[Read more](#)

Latest changes

- 4 days ago Dependabot alerts paused for malware advisories
- 4 days ago Autolinks with alphanumeric IDs
- 5 days ago The new GitHub Issues – June 30th update
- 6 days ago Dependabot alerts: Dependency scope filter via GraphQL API

[View changelog →](#)

Owner * itsuresha

Repository name * newrep109 

Great repository names: newrep109 is available. Ie. Need inspiration? How about ubiquitous-eureka?

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:
Skip this step if you're importing an existing repository.

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

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

.gitignore template: None ▾

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

License: None ▾

ⓘ You are creating a public repository in your personal account.

Create repository

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itsuresha / newrep109 Public

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Quick setup – if you've done this kind of thing before

[] Set up in Desktop or HTTPS SSH <https://github.com/itsuresha/newrep109.git>

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#),

...or create a new repository on the command line

```
echo "# newrep109" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/itsuresha/newrep109.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/itsuresha/newrep109.git
git branch -M main
git push -u origin main
```

```
Last login: Tue Jul  5 12:40:25 on ttys000
(base) dr.suresha@Drsuresh-A-MacBook-Air ~ % git clone https://github.com/itsuresha/newrep109.git
Cloning into 'newrep109'...
warning: You appear to have cloned an empty repository.
(base) dr.suresha@Drsuresh-A-MacBook-Air ~ % ls
Applications           Music          Untitled.ipynb      newrep109
Desktop                Pictures        Untitled1.ipynb    opt
Documents              Postman        Untitled2.ipynb    spark_st_run.ipynb
Downloads              Public         batch109          wilp
Library                TweetsListener.py.ipynb  impartus-downloader
Movies                 Untitled-1.dockerfile  new
(base) dr.suresha@Drsuresh-A-MacBook-Air ~ % cd newrep109
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % code .
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

The screenshot shows the Visual Studio Code (VS Code) interface running on a Mac OS X system. The window title is "newrep109". The left sidebar is the Explorer view, showing a folder named "NEWREP109" containing a file named "first.py". The main workspace is dark-themed and features a large, semi-transparent watermark of the letter "X" in the center. At the bottom of the screen, there is a toolbar with various icons for file operations like Open, Save, and Find, along with a "Cloud Code" button and a "Connect to Google Cloud" button. The status bar at the bottom displays the current file path ("main"), some status icons, and the text "Data Science Education & Research".

newrep109

EXPLORER

...
NEWREP109
first.py

Show All Commands ⌘ P
Go to File ⌘ P
Find in Files ⌘ F
Start Debugging F5
Toggle Terminal ⌘ T

OUTLINE
TIMELINE

main Cloud Code Connect to Google Cloud

Data Science Education & Research

The screenshot shows the Visual Studio Code (VS Code) interface with a dark theme. On the left is the Explorer sidebar with a tree view showing a folder named 'NEWREP109' containing a file 'first.py'. The main workspace shows the content of 'first.py':

```
1 num1=100
2 num2=200
3 print(num1+num2)
4
```

Below the workspace, the tab bar is visible with 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL' (which is selected), and 'GITLENS'. The Python Debug Console tab is also present. The terminal window at the bottom displays the output of running the script:

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```



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Bell + ⌂

itsuresha/newrep109 Public

Pin

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Star 0

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Quick setup — if you've done this kind of thing before

[Set up in Desktop](#)

or

[HTTPS](#)[SSH](#)<https://github.com/itsuresha/newrep109.git>

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# newrep109" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/itsuresha/newrep109.git
git push -u origin main
```



...or push an existing repository from the command line

```
git remote add origin https://github.com/itsuresha/newrep109.git
git branch -M main
git push -u origin main
```



```
newrep109 --zsh-- 105x23

(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git add first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % ls
first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git status
On branch main

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
  new file:   first.py

(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git commit -m "firstcommit"
[main (root-commit) 39a3ff1] firstcommit
 1 file changed, 3 insertions(+)
 create mode 100644 first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```



newrep109 — zsh — 105x23

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 237 bytes | 237.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/itsuresha/newrep109.git
 * [new branch]      main -> main
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

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itsuresha / newrep109 Public

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main newrep109 / first.py Go to file ...

itsuresha firstcommit Latest commit 39a3ff1 5 minutes ago History

1 contributor

3 lines (3 sloc) | 35 Bytes Raw Blame ⌂ ⌓

```
1 num1=100
2 num2=200
3 print(num1+num2)
```



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newrep109 / first.py

in main

Cancel changes

<> Edit file Preview changes

```
1 num1=1000
2 num2=200
3 print(num1+num2)
4
```

Spaces

2

No wrap



Commit changes

firstchange

Add an optional extended description...

 Commit directly to the main branch. Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

Cancel



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Public

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main

1 branch

0 tags

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About



No description, website, or topics provided.

0 stars

1 watching

0 forks

itsuresha firstchange

1ab56dc 1 minute ago 2 commits

first.py

firstchange

1 minute ago

Help people interested in this repository understand your project by adding a README.

[Add a README](#)

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Languages

The screenshot shows the Visual Studio Code (VS Code) interface. On the left is the Explorer sidebar with a file icon and the path `NEWREP109` expanded, showing `first.py`. The main area displays the contents of `first.py`:

```
You, 10 minutes ago | 1 author (You)
1 num1=100
2 num2=200      You, 10 minutes ago • firstcommit ...
3 print(num1+num2)
4
```

Below the editor is a tab bar with `PROBLEMS`, `OUTPUT`, `DEBUG CONSOLE`, `TERMINAL` (which is selected), and `GITLENS`. The terminal window shows the following command-line session:

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

```
newrep109 — zsh — 105x23  
[(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git pull  
remote: Enumerating objects: 5, done.  
remote: Counting objects: 100% (5/5), done.  
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
Unpacking objects: 100% (3/3), 648 bytes | 216.00 KiB/s, done.  
From https://github.com/itsuresha/newrep109  
 39a3ff1..1ab56dc  main      -> origin/main  
Updating 39a3ff1..1ab56dc  
Fast-forward  
 first.py | 2 +-  
1 file changed, 1 insertion(+), 1 deletion(-)  
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. The title bar indicates the file is "first.py — newrep109". The left sidebar has icons for Explorer, Search, Preview, and others, with "EXPLORER" and "NEWREP109" selected. The main workspace shows the code editor with "first.py" open, containing the following Python code:

```
1 num1=1000
2 num2=200
3 print(num1+num2)
4
```

The status bar at the bottom shows the terminal tab is active. The terminal window displays the following command-line session:

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface running on a Mac OS X system. The title bar indicates the file is named "first.py" and is part of a repository "newrep109". The left sidebar (Explorer) shows a folder "NEWREP109" containing a file "first.py". The main editor area displays the following Python code:

```
1 num1=1001
2 num2=200
3 print(num1+num2)
4
```

Below the editor, the "TERMINAL" tab is active, showing the command-line output of running the script:

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

The status bar at the bottom provides information about the workspace, including "Spaces: 4", "UTF-8", "LF", "Python", "3.8.9 64-bit", and connectivity options like "Cloud Code" and "Connect to Google Cloud".



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newrep109 / first.py

in [main](#)

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Spaces

2

No wrap

```
1 num1=1005
2 num2=200
3 print(num1+num2)
4
```

```
[base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git pull
Already up to date.
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git commit -am "commit"
[main 98b130a] commit
 1 file changed, 1 insertion(+), 1 deletion(-)
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 647 bytes | 215.00 KiB/s, done.
From https://github.com/itsuresha/newrep109
  1ab56dc..8cf9616  main      -> origin/main
hint: You have divergent branches and need to specify how to reconcile them.
hint: You can do so by running one of the following commands sometime before
hint: your next pull:
hint:
hint:   git config pull.rebase false  # merge
hint:   git config pull.rebase true   # rebase
hint:   git config pull.ff only     # fast-forward only
hint:
hint: You can replace "git config" with "git config --global" to set a default
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
```

A screenshot of the Visual Studio Code (VS Code) interface. The top bar shows the title "first.py — newrep109". The left sidebar (Explorer) shows a folder "NEWREP109" containing a file "first.py". The main editor area displays the following Python code:

```
1 num1=1001
2 num2=200
3 print(num1+num2)
4
```

The bottom right corner of the editor has a small icon with a red dot. Below the editor are tabs for "PROBLEMS", "OUTPUT", "TERMINAL", and "...". The "TERMINAL" tab is active, showing the command-line output of running the script:

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

The status bar at the bottom shows "Spaces: 4" and "Python 3.8.9 64-bit".

newrep109 -- zsh -- 105x23

```
hint: invocation.  
fatal: Need to specify how to reconcile divergent branches.  
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git pull  
remote: Enumerating objects: 5, done.  
remote: Counting objects: 100% (5/5), done.  
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
Unpacking objects: 100% (3/3), 639 bytes | 213.00 KiB/s, done.  
From https://github.com/itsuresha/newrep109  
  8cf9616..cd39ba9  main      -> origin/main  
hint: You have divergent branches and need to specify how to reconcile them.  
hint: You can do so by running one of the following commands sometime before  
hint: your next pull:  
hint:  
hint:   git config pull.rebase false  # merge  
hint:   git config pull.rebase true   # rebase  
hint:   git config pull.ff only     # fast-forward only  
hint:  
hint: You can replace "git config" with "git config --global" to set a default  
hint: preference for all repositories. You can also pass --rebase, --no-rebase,  
hint: or --ff-only on the command line to override the configured default per  
hint: invocation.  
fatal: Need to specify how to reconcile divergent branches.  
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. On the left is the Explorer sidebar with a single item named "NEWREP109" containing "first.py". The main area displays the content of "first.py":

```
1 num1=1005
2 num2=200
3 print(num1+num2)

1 num1=1001
2 num1=1005
3 num2=200
4 print(num1+num2)
```

A tooltip above the code indicates "You, 4 minutes ago | 1 author (You)" for the first change and "You, 3 minutes ago • Uncommitted changes" for the second. The code editor has a dark theme with syntax highlighting.

Below the code editor is a navigation bar with tabs: PROBLEMS, OUTPUT, TERMINAL, and The TERMINAL tab is active, showing the following command-line output:

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

newrep109 -- zsh -- 105x23

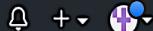
```
From https://github.com/itsuresha/newrep109
8cf9616..cd39ba9  main      -> origin/main
hint: You have divergent branches and need to specify how to reconcile them.
hint: You can do so by running one of the following commands sometime before
hint: your next pull:
hint:
hint: git config pull.rebase false # merge
hint: git config pull.rebase true  # rebase
hint: git config pull.ff only     # fast-forward only
hint:
hint: You can replace "git config" with "git config --global" to set a default
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
hint: invocation.
fatal: Need to specify how to reconcile divergent branches.
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git commit -am "commit2"
On branch main
Your branch and 'origin/main' have diverged,
and have 1 and 2 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

nothing to commit, working tree clean
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```



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main ▾

Commits on Jul 5, 2022

1005

itsuresha committed 9 minutes ago

Verified



cd39ba9



changed to 1002

itsuresha committed 18 minutes ago

Verified



8cf9616



firstchange

itsuresha committed 2 hours ago

Verified



1ab56dc



firstcommit

itsuresha committed 2 hours ago



39a3fff1



Newer

Older



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itsuresha / newrep109

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1



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39a3ff1d7d

newrep109 / first.py

< > Jump to ▾

Go to file

...



itsuresha firstcommit

Latest commit 39a3ff1 2 hours ago

1 contributor

3 lines (3 sloc) | 35 Bytes

Raw

Blame



```
1 num1=100
2 num2=200
3 print(num1+num2)
```



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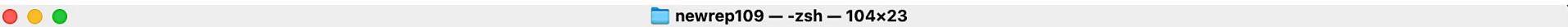
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(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git reset --hard 39a3ff1
HEAD is now at 39a3ff1 firstcommit
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. The title bar indicates the file is "first.py — newrep109". The left sidebar (EXPLORER) shows a folder "NEWREP109" containing "first.py". The main editor area displays the following Python code:

```
1 num1=1005
first.py 1 of 1 change
1 num1=100
1 num1=1005
2 2 num2=200
3 3 print(num1+num2)
2 num2=200
3 print(num1+num2)
4
```

The line "num1=1005" is highlighted in green, indicating it has been modified. The terminal below shows a Python session starting a debugger:

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

first.py — newrep109

first.py M ×

first.py > ... You, 1 second ago | 1 author (You)

```
1 num1=100
2 num2=200
3 print(num1*num2)
4
```

PROBLEMS OUTPUT TERMINAL ⋮

Python Debug Console

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

branch1* ↻ ⌂ 0 ▲ 0 ⌄ Cloud Code ⌂ Connect to Google Cloud -- INSERT -- Spaces: 4 UTF-8 LF Python 3.9.13 64-bit ⌓ ⌔

```
newrep109 --zsh-- 104x23

(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git branch
* main

(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git checkout -b "branch1"
Switched to a new branch 'branch1'

(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git branch
* branch1
  main

(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git commit -am "branch1commit"
[branch1 ad485f2] branch1commit
 1 file changed, 1 insertion(+), 1 deletion(-)

(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git checkout main
Switched to branch 'main'

Your branch is behind 'origin/main' by 4 commits, and can be fast-forwarded.
(use "git pull" to update your local branch)

(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

first.py — newrep109

first.py

```
You, 3 hours ago | 1 author (You)
1 num1=100
2 num2=200
3 print(num1+num2)
4
```

PROBLEMS OUTPUT TERMINAL ...

Python Debug Console

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

EXPLORER ...

NEWREP109

first.py

main ↻ 4 ↴ 0 ↑ ↻ 0 △ 0 ↻ Cloud Code Connect to Google Cloud -- INSERT -- Spaces: 4 UTF-8 LF Python 3.9.13 64-bit ↻

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface running on a Mac OS X system. The title bar indicates the file is 'first.py — newrep109'. The left sidebar (EXPLORER) shows a folder 'NEWREP109' containing 'first.py'. The main editor area displays the following code:

```
1 num1=100      You, 6 minutes ago | 1 author (You)
2 num2=200
3 print(num1*num2)
4
```

Below the editor, the bottom navigation bar includes tabs for PROBLEMS, OUTPUT, TERMINAL, and other icons. The TERMINAL tab is active, showing the following terminal history:

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

The status bar at the bottom shows the current branch is 'branch1', and the file encoding is 'UTF-8'. It also includes links for 'Cloud Code' and 'Connect to Google Cloud'.

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface running on a Mac. The title bar indicates the file is "first.py — newrep109". The left sidebar (Explorer) shows a folder named "NEWREP109" containing a file "first.py". The main editor area displays the following Python code:

```
1 num1=1
2 num2=200
3 print(num1+num2)
4
```

The bottom navigation bar includes tabs for PROBLEMS, OUTPUT, TERMINAL, and others. The TERMINAL tab is active, showing the following terminal history:

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

The status bar at the bottom shows the file is "main", has 4 changes (4 down, 1 up), and is connected to "Cloud Code". It also shows "Connect to Google Cloud", "INSERT" mode, and settings for "Spaces: 4", "UTF-8", "LF", "Python", "3.9.13 64-bit".

```
newrep109 --zsh-- 104x23

(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git commit -am "branch1commit"
[branch1 ad485f2] branch1commit
 1 file changed, 1 insertion(+), 1 deletion(-)
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git checkout main
Switched to branch 'main'
Your branch is behind 'origin/main' by 4 commits, and can be fast-forwarded.
  (use "git pull" to update your local branch)
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git commit -am "maincommit"
[main 4fb3402] maincommit
 1 file changed, 1 insertion(+), 1 deletion(-)
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git checkout branch1
Switched to branch 'branch1'
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git checkout main
Switched to branch 'main'
Your branch and 'origin/main' have diverged,
and have 1 and 4 different commits each, respectively.
  (use "git pull" to merge the remote branch into yours)
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % git merge branch1
Auto-merging first.py
Merge made by the 'ort' strategy.
first.py | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

first.py — newrep109

EXPLORER ...

first.py > ... You, 5 minutes ago | 1 author (You)

```
1 num1=1
2 num2=200
3 print(num1*num2)
4
```

PROBLEMS OUTPUT TERMINAL ...

Python Debug Console + ×

```
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61379 -- /Users/dr.suresha/newrep109/first.py
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 % cd /Users/dr.suresha/newrep109 ; /usr/bin/env /opt/homebrew/bin/python3 /Users/dr.suresha/.vscode/extensions/ms-python.python-2022.8.1/pythonFiles/lib/python/debugpy/launcher 61404 -- /Users/dr.suresha/newrep109/first.py
300
(base) dr.suresha@Drsuresh-A-MacBook-Air newrep109 %
```

main ↻ 4 ↓ 3 ↑ ⌂ 0 △ 0 ⌂ Cloud Code Connect to Google Cloud -- INSERT -- Spaces: 4 UTF-8 LF Python 3.9.13 64-bit ⌂ ⌂



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itsuresha / newrep109

Public



1



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About

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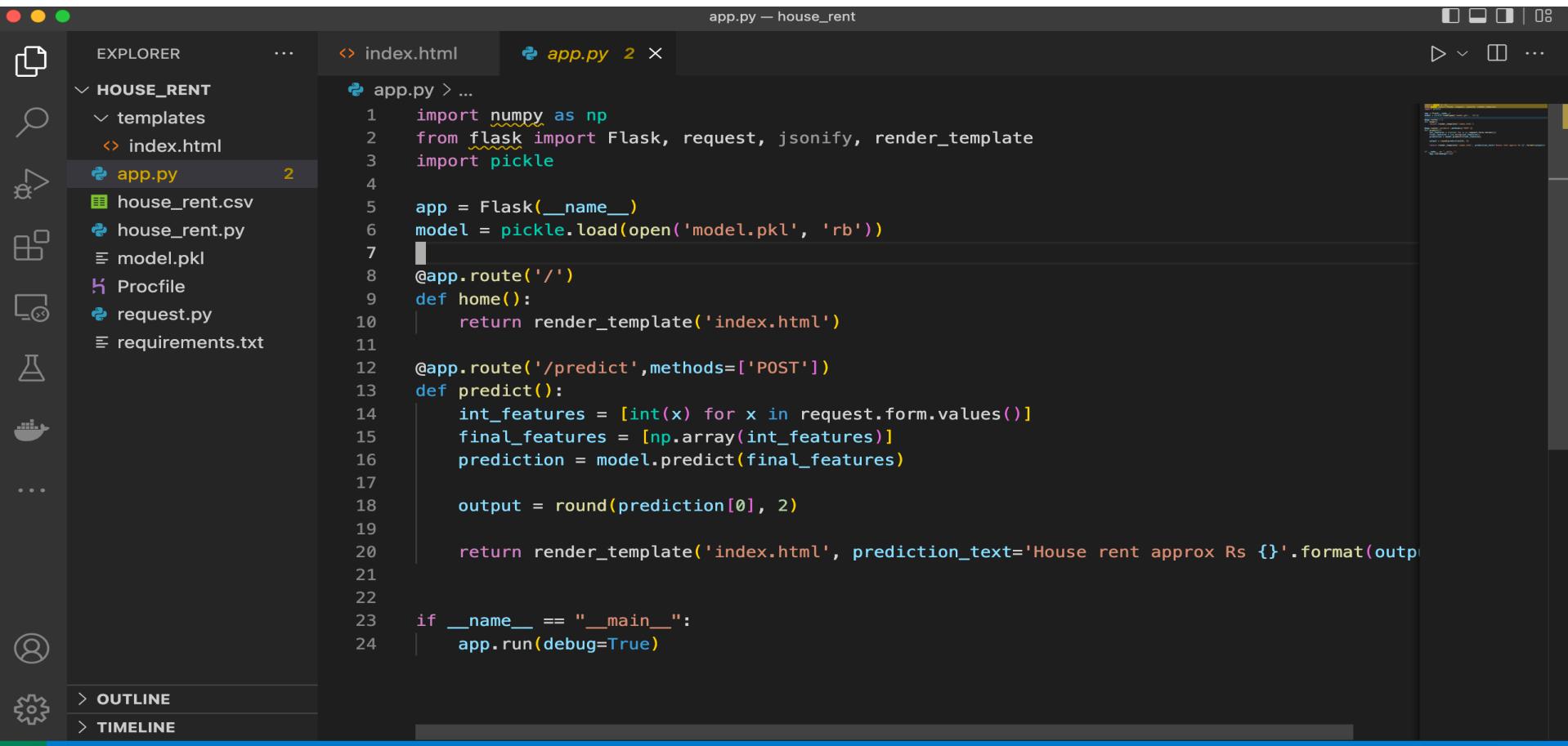
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The screenshot shows a dark-themed code editor interface, likely VS Code, with the following details:

- Explorer View:** Shows a project structure for "HOUSE_RENT" containing files: templates/index.html, app.py, house_rent.csv, house_rent.py, model.pkl, Procfile, request.py, and requirements.txt.
- Code Editor:** The file "index.html" is open, displaying the following code:

```
<!DOCTYPE html>
<html>
<body>
<div class="login">
<h1>Prediction of House Rent</h1>
<form action="{{ url_for('predict') }}" method="post">
<input type="text" name="city" placeholder="Name of the City" required="required" /><br>
<input type="text" name="type" placeholder="Type of house" required="required" /><br>
<input type="text" name="bhk" placeholder="No.of rooms" required="required" /><br><br>
<button type="submit" class="btn btn-primary btn-block btn-large">Predict</button><br>
</form>
<br>
<br>
{{ prediction_text }}
</div>
</body>
</html>
```
- Bottom Navigation:** Includes tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, and TERMINAL, along with terminal command-line interface (CLI) tools like zsh, +, and %.
- Bottom Status Bar:** Displays the current environment as "(base)" and the command "(dr.suresha@Drsuresh-A-MacBook-Air house_rent %)".
- Bottom Footer:** Shows status information: Ln 15, Col 8, Spaces: 2, UTF-8, LF, Django HTML, and a page number of 40.



EXPLORER ... index.html app.py 2 ×

```
app.py > ...
1 import numpy as np
2 from flask import Flask, request, jsonify, render_template
3 import pickle
4
5 app = Flask(__name__)
6 model = pickle.load(open('model.pkl', 'rb'))
7
8 @app.route('/')
9 def home():
10     return render_template('index.html')
11
12 @app.route('/predict', methods=['POST'])
13 def predict():
14     int_features = [int(x) for x in request.form.values()]
15     final_features = [np.array(int_features)]
16     prediction = model.predict(final_features)
17
18     output = round(prediction[0], 2)
19
20     return render_template('index.html', prediction_text='House rent approx Rs {}'.format(output))
21
22
23 if __name__ == "__main__":
24     app.run(debug=True)
```

The screenshot shows a dark-themed code editor interface. The top bar includes standard window controls (red, yellow, green) and a title bar reading "house_rent.csv — house_rent". The left sidebar, titled "EXPLORER", lists project files: "HOUSE...", "templates", "index.html", "app.py", "house_rent.csv" (which is selected and highlighted in blue), "house_rent.py", "model.pkl", "Procfile", "request.py", and "requirements.txt". The main workspace displays the contents of "house_rent.csv":

	city	type	bhk	rent
1	0,0,1		20000	
2	0,0,2		30000	
3	0,1,2		40000	
4	1,0,3		50000	
5	1,0,4		60000	
6	1,1,4		70000	
7	0,1,5		80000	
8	1,1,5		90000	
9				
10				

The bottom navigation bar includes icons for Cloud Code, Connect to Google Cloud, and NORMAL mode, along with status information: Ln 1, Col 1, Spaces: 4, UTF-8, CRLF, Plain Text, and a gear icon for settings. The bottom right corner shows the page number 42.

```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
from sklearn.linear_model import LinearRegression
import pickle

# In[2]:
|
dataset = pd.read_csv('house_rent.csv')

# In[3]:
X = dataset.iloc[:, :-1]
y = dataset.iloc[:, -1]

# In[6]:
regressor = LinearRegression()

# In[7]:
regressor.fit(X, y)

# In[8]:
pickle.dump(regressor, open('model.pkl','wb'))

# In[9]:
model = pickle.load(open('model.pkl','rb'))

# In[10]:
print(model.predict([[1, 1, 2]]))
```


The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. The title bar indicates the file is "request.py — house_rent". The left sidebar displays a project structure under "HOUSE_RENT": "index.html", "request.py", "app.py", "house_rent.csv", "house_rent.py", "model.pkl", "Procfile", and "requirements.txt". The "request.py" file is currently open in the main editor area. The code in the editor is:

```
1 import requests
2 from collections.abc import Mapping
3
4
5 url = 'http://localhost:5000/predict_api'
6 r = requests.post(url,json={'city':1, 'type':1, 'bhk':2})
7
8 print(r.json())
```

The status bar at the bottom shows "Ln 8, Col 15" and "Spaces: 4". The bottom right corner shows the page number "45".

The screenshot shows a code editor window with a dark theme. The title bar reads "requirements.txt — house_rent". The left sidebar displays a file tree under "HOUSE_RENT" containing "index.html", "app.py", "house_rent.csv", "house_rent.py", "model.pkl", "Procfile", "request.py", and two "requirements.txt" files. The main editor area shows the content of the second "requirements.txt" file:

```
1  Flask==2.1.2
2  gunicorn==19.9.0
3  itsdangerous==2.0
4  Jinja2==3.0
5  MarkupSafe==2.0.0rc2
6  Werkzeug==2.0
7  numpy>=1.9.2
8  scipy>=0.15.1
9  scikit-learn>=0.18
10 matplotlib>=1.4.3
11 pandas>=0.19
12
13
```

The status bar at the bottom indicates "Ln 13, Col 1" and "Spaces: 4". Other status items include "Cloud Code", "Connect to Google Cloud", "-- INSERT --", "UTF-8", "CRLF", "pip requirements", and icons for "Cloud Code", "Google Cloud", "Insert", and "File".

requirements.txt — house_rent

EXPLORER ⋮

HOUSE_RENT

- templates
- index.html
- app.py
- house_rent.csv
- house_rent.py
- model.pkl
- Procfile
- request.py

requirements.txt

```
1 Flask==2.1.2
2 gunicorn==19.9.0
3 itsdangerous==2.0
4 Jinja2==3.0
5 MarkupSafe==2.0.0rc2
6 Werkzeug==2.0
7 numpy>=1.9.2
8 scipy>=0.15.1
9 scikit-learn>=0.18
10 matplotlib>=1.4.3
11 pandas>=0.19
12
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
(base) dr.suresha@Drsuresh-A-MacBook-Air house_rent % python app.py
* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
* Restarting with watchdog (fsevents)
* Debugger is active!
* Debugger PIN: 701-318-612
```

+ ^ ×

zsh

python3.9

> OUTLINE

> TIMELINE

× Ø △ Ø </> Cloud Code ⚙ Connect to Google Cloud -- INSERT --

Ln 13, Col 1 Spaces: 4 UTF-8 CRLF pip requirements ⚙

Data Science Education & Research

47

127.0.0.1:5000/predict

127.0.0.1:5000/predict

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Prediction of House Rent

House rent approx Rs 67307.69



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itsuresha/new

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itsuresha/House_rent

itsuresha/ML

itsuresha/MLGIT

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Introduce yourself

The easiest way to introduce yourself on GitHub is by creating a README in a repository about you! You can start here:

itsuresha / README.md

- 1 - 🌟 Hi, I'm @itsuresha
- 2 - 🌐 I'm interested in ...
- 3 - 🌱 I'm currently learning ...
- 4 - 💬 I'm looking to collaborate on ...
- 5 - 📩 How to reach me ...
- 6

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- 4 days ago Dependabot alerts paused for malware advisories
 - 5 days ago Autolinks with alphanumeric IDs
 - 6 days ago The new GitHub Issues – June 30th update
 - 7 days ago Dependabot alerts: Dependency scope filter via GraphQL API
- [View changelog →](#)

Owner * itsuresha

Repository name * HouseRent 

Great repository names: HouseRent is available. I.e. Need inspiration? How about super-ba

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:
Skip this step if you're importing an existing repository.

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

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

.gitignore template: None ▾

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

License: GNU General Public... ▾

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

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itsuresha/HouseRent Public

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main 1 branch 0 tags Go to file Add file ▾ Code ▾

itsuresha Initial commit dde977a 1 minute ago 1 commit

LICENSE Initial commit 1 minute ago

README.md Initial commit 1 minute ago

README.md

HouseRent



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Upload files

1 commit

itsuresha Initial commit

LICENSE

Initial commit

now

README.md

Initial commit

now

README.md



HouseRent

<https://github.com/itsuresha/HouseRent/upload/main>

About

No description, website, or topics provided.

Readme

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	requirements.txt	X
	request.py	X
	Procfile	X
	model.pkl	X
	house_rent.py	X
	house_rent.csv	X
	app.py	X
	/templates/index.html	X



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main ▾

1 branch

0 tags

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App name

houserent1



houserent1 is available

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Create app

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Choose a pipeline



Deployment method

Heroku Git
Use Heroku CLIGitHub
Connect to GitHubContainer Registry
Use Heroku CLI

Connect to GitHub

Connect this app to GitHub to enable code
diffs and deploys.

Search for a repository to connect to



itsuresha



house

Search

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itsuresha/HouseRent

Connect

itsuresha/House_rent

Connect

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Every push to the branch you specify here will deploy a new version of this app. **Deploys happen automatically:** be sure that this branch is always in a deployable state and any tests have passed before you push. [Learn more](#).

Choose a branch to deploy

 main

Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more](#).

Choose a branch to deploy

 main

Jump to Favorites, Apps, Pipelines, Spaces...



main



Deploy Branch

Receive code from GitHub



Build main 1b169a16



```
-----> Compressing...
      Done: 152.3M
-----> Launching...
      Released v5
```

<https://houserent1.herokuapp.com/> deployed to Heroku

This app is using the Heroku-20 stack, however a newer stack is available.

To upgrade to Heroku-22, see:

<https://devcenter.heroku.com/articles/upgrading-to-the-latest-stack>

Autoscroll with output

[View build log](#)

Release phase

Deploy to Heroku

Jump to Favorites, Apps, Pipelines, Spaces...



Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more.](#)

Choose a branch to deploy

 ▼**Deploy Branch**

Receive code from GitHub ✓

Build main `1b169a16` ✓

Release phase ✓

Deploy to Heroku ✓

Your app was successfully deployed.

View

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Prediction of House Rent

House rent approx Rs 36153.85