PROJECT DEPLOYMENT

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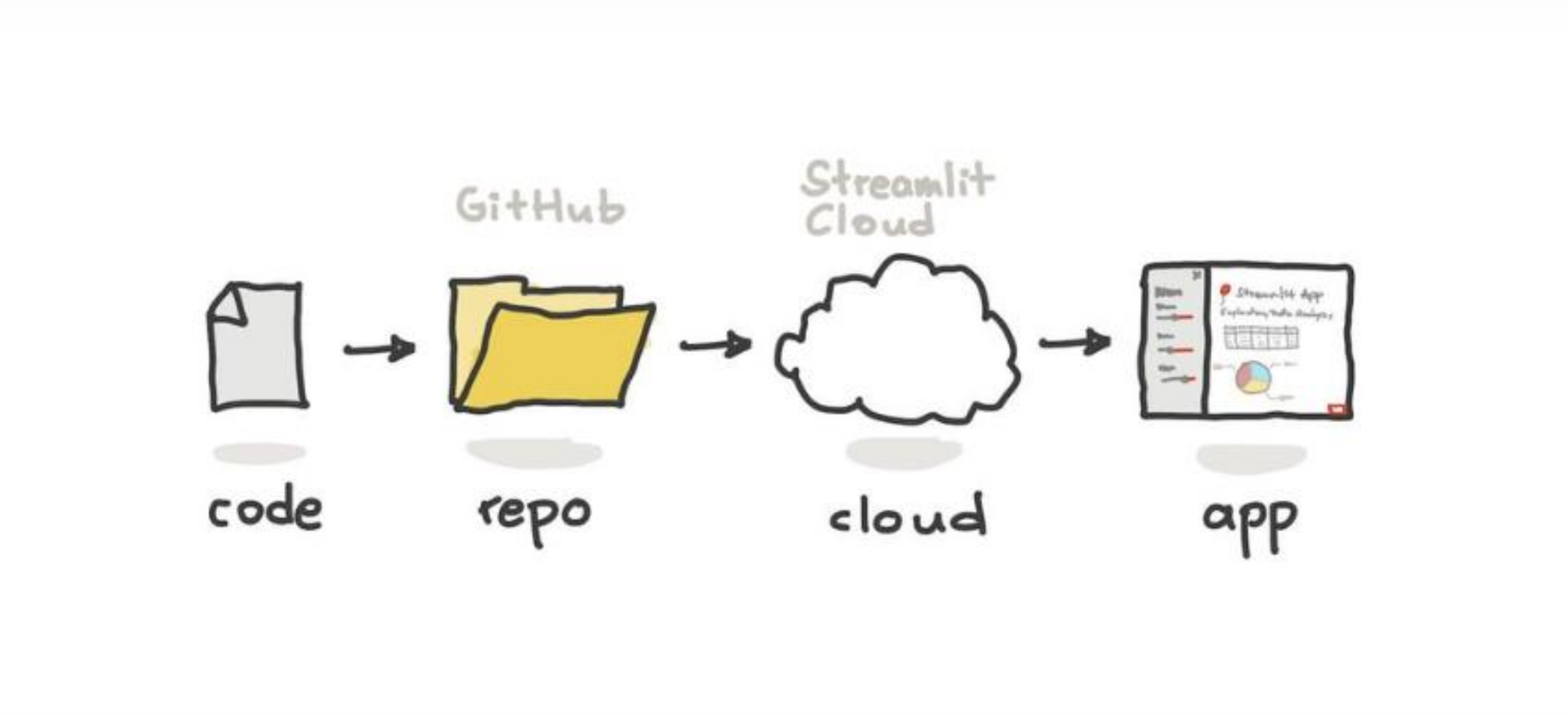
Shofinurdin

PJJ Data Analytics BDK Makasar

OBJECTIVE

objective

DEPLOYMENT



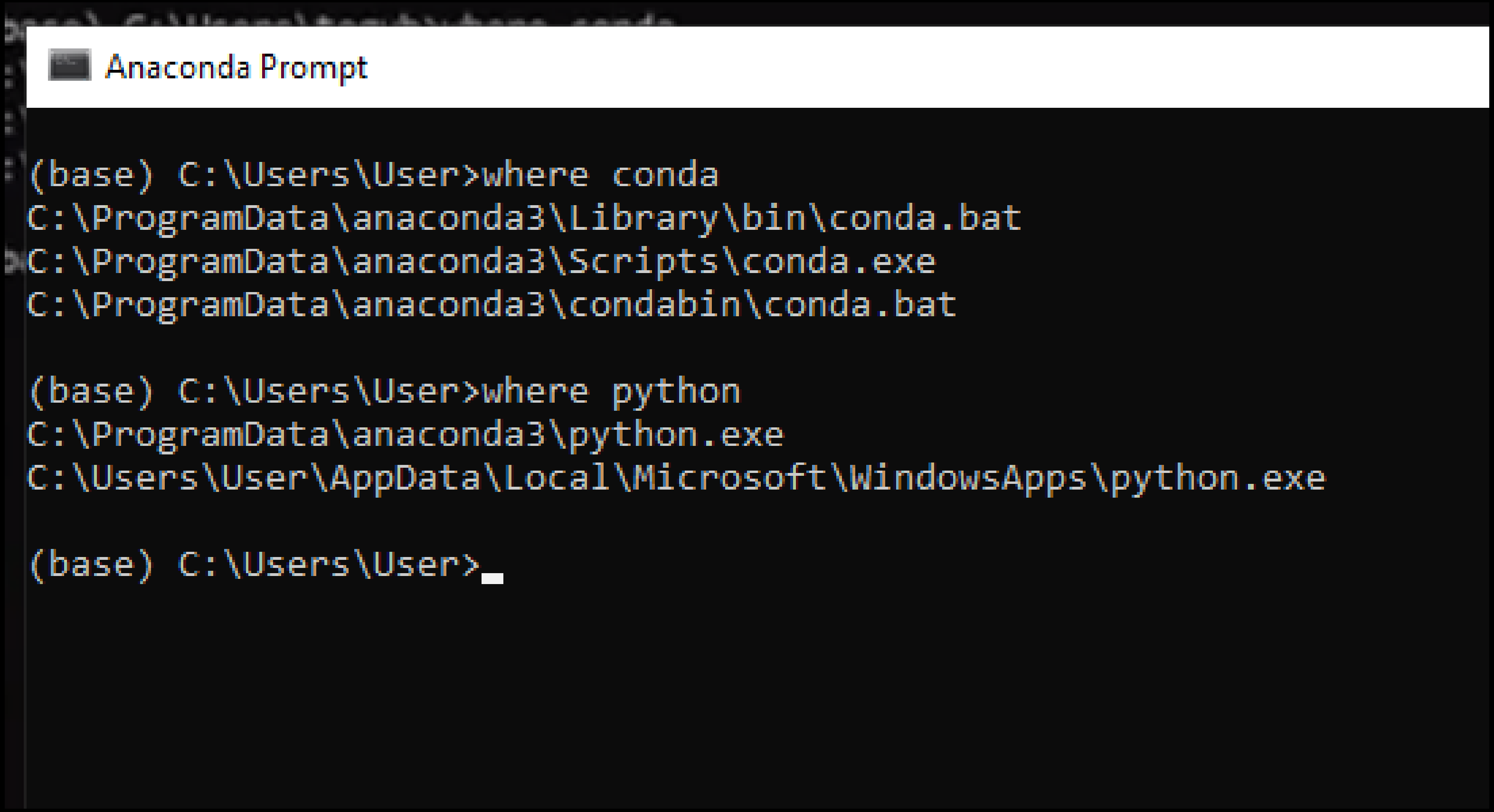
TODO LIST

- Install dan Setting VSCode
- Membuat & export model
- Deploy di local
- Install git & upload project ke github
- Deploy Project di Streamlit Cloud

INSTALL & SETTING VSCODE

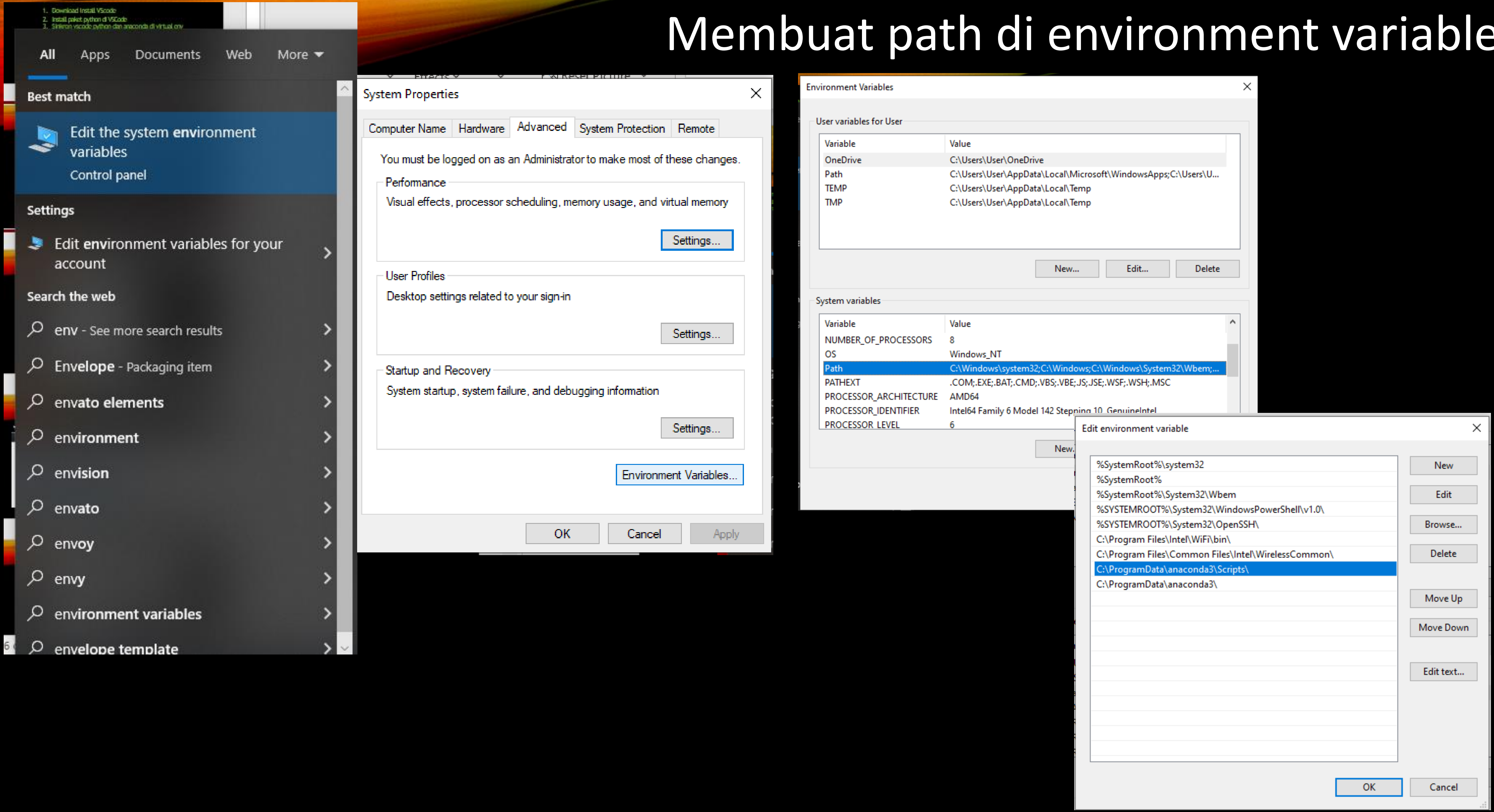
1. Download Install VScode
2. Install paket python di VSCode
3. Sinkron vscode python dan anaconda di virtual env
4. Membuat Virtual environment
5. Aktifkan virtual environment

Sinkronisasi Terminal dengan anaconda



```
(base) C:\Users\User>where conda
C:\ProgramData\anaconda3\Library\bin\conda.bat
C:\ProgramData\anaconda3\Scripts\conda.exe
C:\ProgramData\anaconda3\condabin\conda.bat

(base) C:\Users\User>where python
C:\ProgramData\anaconda3\python.exe
C:\Users\User\AppData\Local\Microsoft\WindowsApps\python.exe

(base) C:\Users\User>
```

Membuat path di environment variable



1. Download Install VScode
2. Install paket python di VSCode
3. Sinkron vscode python dan anaconda di virtual env

Best match

Edit the system environment variables
Control panel

Settings

Edit environment variables for your account

Search the web

- env - See more search results
- Envelope - Packaging item
- envato elements
- environment
- envision
- envato
- envoy
- envy
- environment variables
- envelope template

System Properties

You must be logged on as an Administrator to make most of these changes.

Performance

Visual effects, processor scheduling, memory usage, and virtual memory

User Profiles

Desktop settings related to your sign-in

Startup and Recovery

System startup, system failure, and debugging information

Environment Variables

User variables for User

Variable	Value
OneDrive	C:\Users\User\OneDrive
Path	C:\Users\User\AppData\Local\Microsoft\WindowsApps;C:\Users\U...
TEMP	C:\Users\User\AppData\Local\Temp
TMP	C:\Users\User\AppData\Local\Temp

System variables

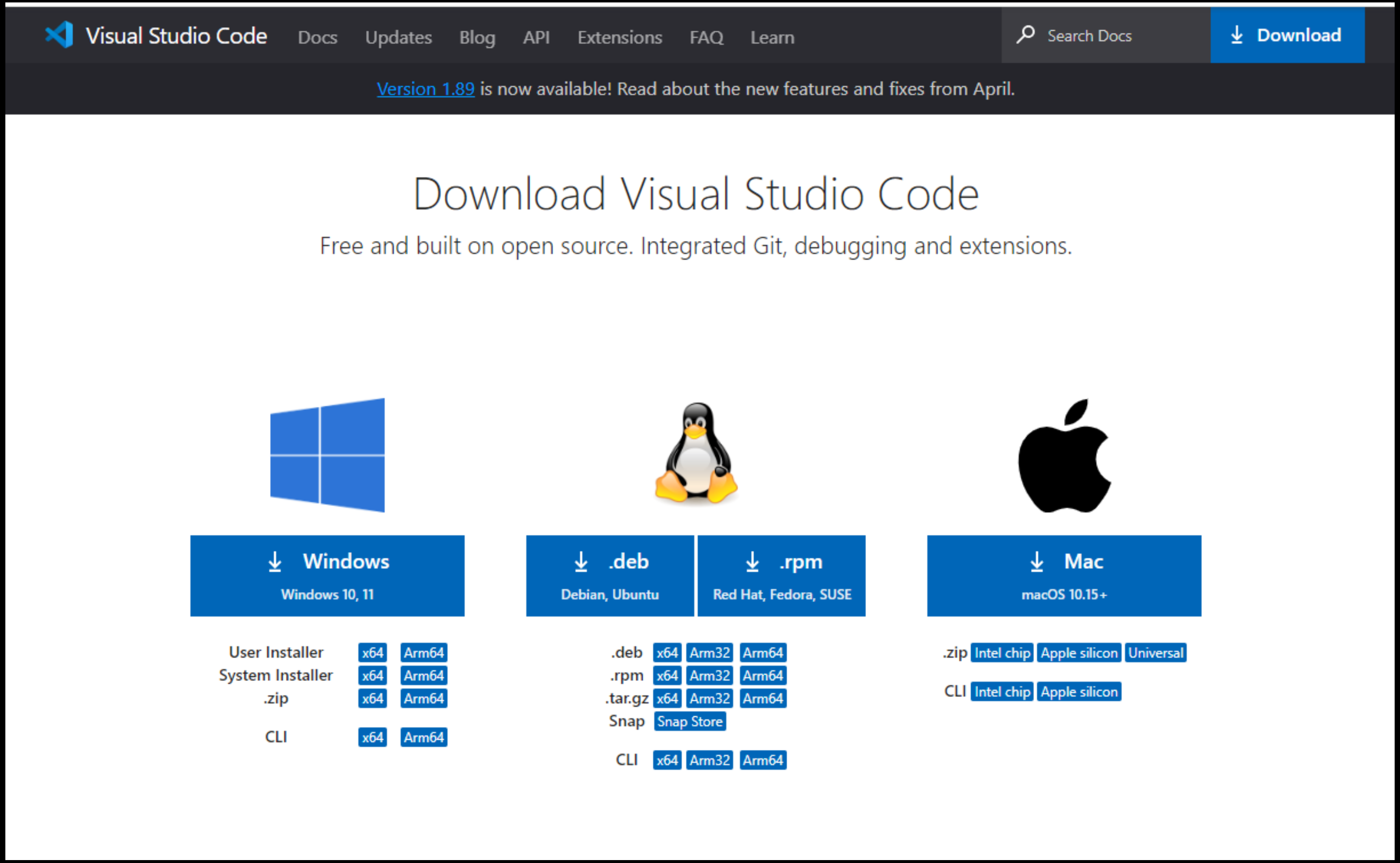
Variable	Value
NUMBER_OF_PROCESSORS	8
OS	Windows_NT
Path	C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTURE	AMD64
PROCESSOR_IDENTIFIER	Intel64 Family 6 Model 142 Stepping 10, GenuineIntel
PROCESSOR_LEVEL	6

Edit environment variable

```
%SystemRoot%\system32
%SystemRoot%
%SystemRoot%\System32\Wbem
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\
%SYSTEMROOT%\System32\OpenSSH\
C:\Program Files\Intel\WiFi\bin\
C:\Program Files\Common Files\Intel\WirelessCommon\
C:\ProgramData\anaconda3\Scripts\
C:\ProgramData\anaconda3\
```

DOWNLOAD & INSTALL VSCODE

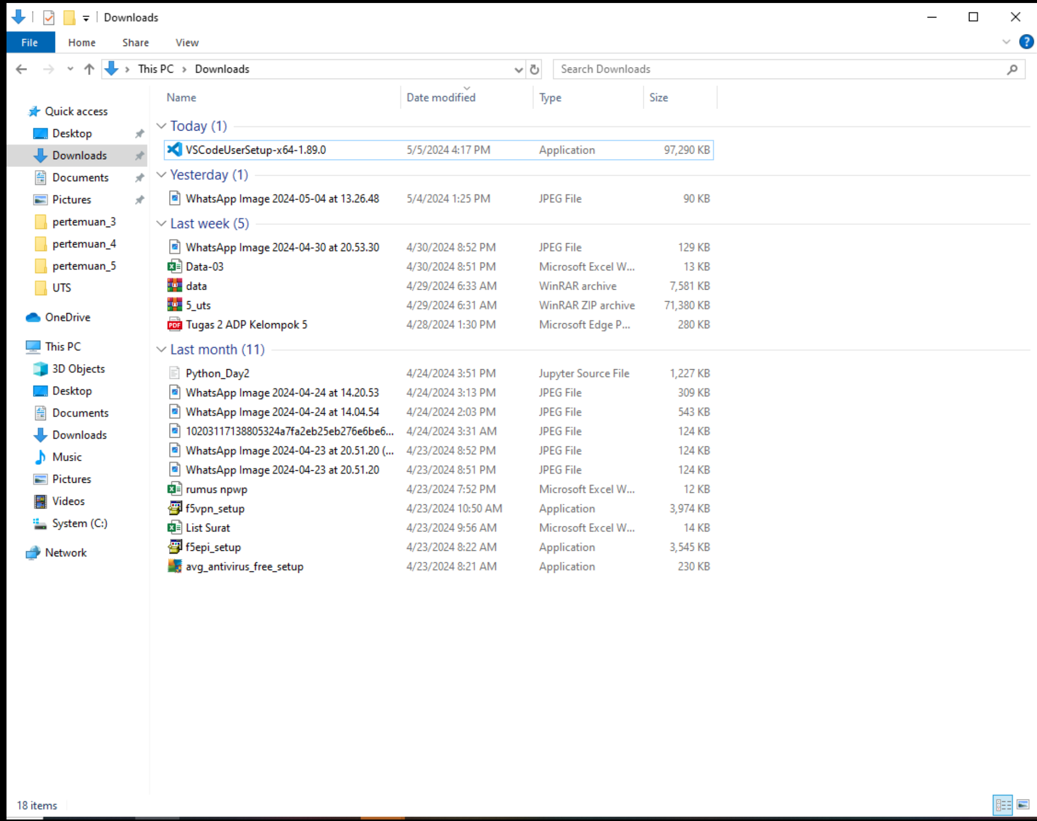
https://code.visualstudio.com/Download



Version 1.89 is now available! Read about the new features and fixes from April.

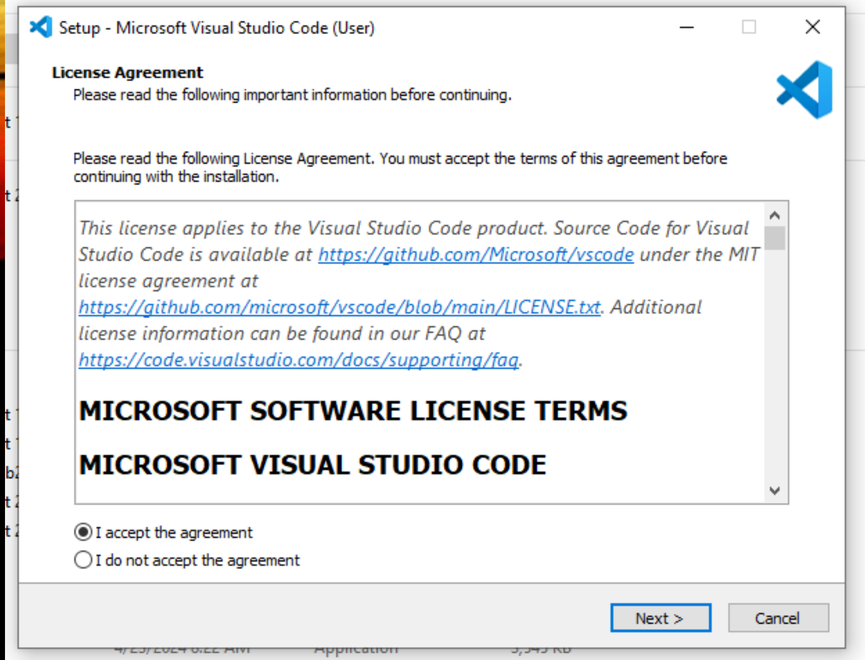
Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



Name	Date modified	Type	Size
Today (1)			
VSCodeUserSetup-x64-1.89.0	5/5/2024 4:17 PM	Application	97,290 KB
Yesterday (1)			
WhatsApp Image 2024-05-04 at 13.26.48	5/4/2024 1:25 PM	JPEG File	90 KB
Last week (5)			
WhatsApp Image 2024-04-30 at 20.53.30	4/30/2024 8:52 PM	JPEG File	129 KB
Data-03	4/30/2024 8:51 PM	Microsoft Excel W...	13 KB
data	4/29/2024 6:33 AM	WinRAR archive	7,581 KB
5_uts	4/29/2024 6:31 AM	WinRAR ZIP archive	71,380 KB
Tugas 2 ADP Kelompok 5	4/28/2024 1:30 PM	Microsoft Edge P...	280 KB
Last month (11)			
Python_Day2	4/24/2024 3:51 PM	Jupyter Source File	1,227 KB
WhatsApp Image 2024-04-24 at 14.20.53	4/24/2024 3:13 PM	JPEG File	309 KB
WhatsApp Image 2024-04-24 at 14.04.54	4/24/2024 2:03 PM	JPEG File	543 KB
10203117138805324a7fa2eb25eb276e6be6...	4/24/2024 3:31 AM	JPEG File	124 KB
WhatsApp Image 2024-04-23 at 20.51.20 (...	4/23/2024 8:52 PM	JPEG File	124 KB
WhatsApp Image 2024-04-23 at 20.51.20	4/23/2024 8:51 PM	JPEG File	124 KB
rumus npwp	4/23/2024 7:52 PM	Microsoft Excel W...	12 KB
f5vpn_setup	4/23/2024 10:50 AM	Application	3,974 KB
List Surat	4/23/2024 9:56 AM	Microsoft Excel W...	14 KB
f5epi_setup	4/23/2024 8:22 AM	Application	3,545 KB
avg_antivirus_free_setup	4/23/2024 8:21 AM	Application	230 KB

18 items



Setup - Microsoft Visual Studio Code (User)

License Agreement

Please read the following important information before continuing.

Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

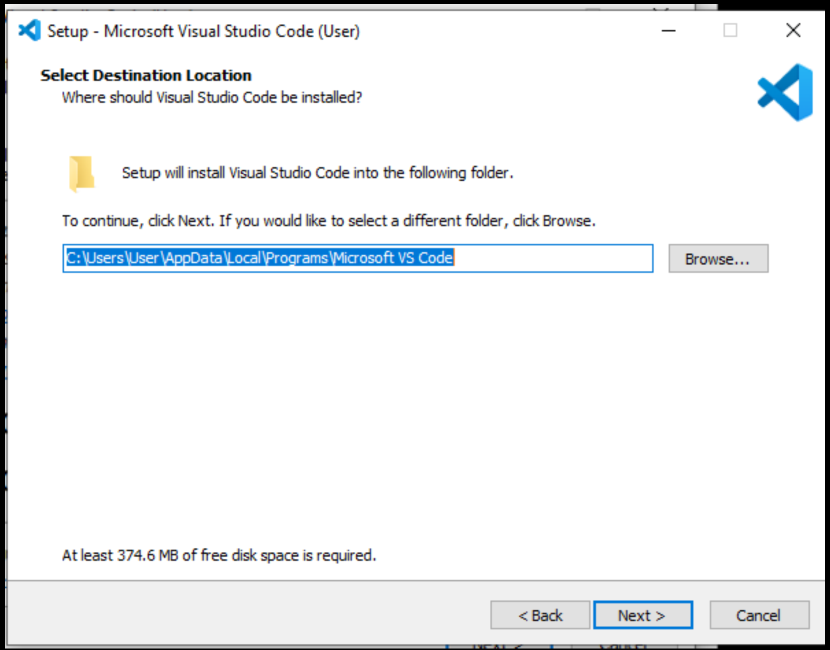
This license applies to the Visual Studio Code product. Source Code for Visual Studio Code is available at https://github.com/Microsoft/vscode under the MIT license agreement at https://github.com/microsoft/vscode/blob/main/LICENSE.txt. Additional license information can be found in our FAQ at https://code.visualstudio.com/docs/supporting/faq.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT VISUAL STUDIO CODE

● I accept the agreement

○ I do not accept the agreement



Setup - Microsoft Visual Studio Code (User)

Select Destination Location

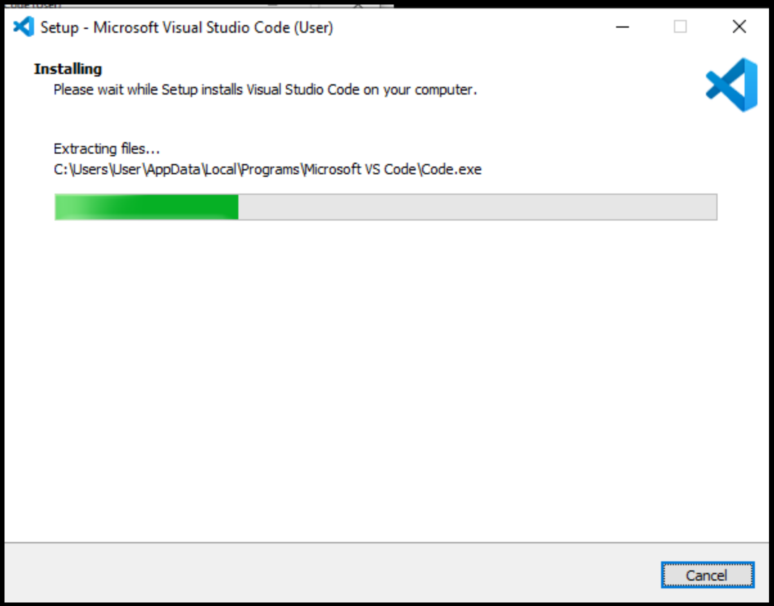
Where should Visual Studio Code be installed?

Setup will install Visual Studio Code into the following folder.

To continue, click Next. If you would like to select a different folder, click Browse.

C:\Users\User\AppData\Local\Programs\Microsoft VS Code

At least 374.6 MB of free disk space is required.



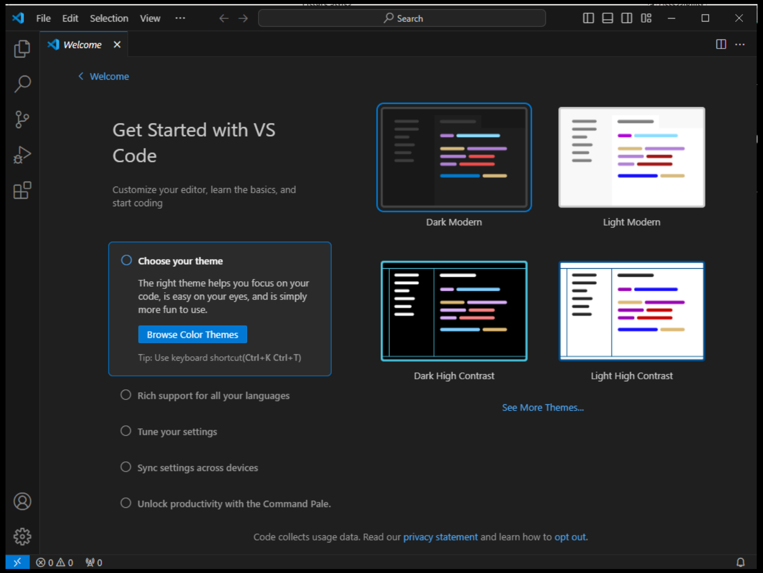
Setup - Microsoft Visual Studio Code (User)

Installing

Please wait while Setup installs Visual Studio Code on your computer.

Extracting files...

C:\Users\User\AppData\Local\Programs\Microsoft VS Code\Code.exe



Get Started with VS Code

Customize your editor, learn the basics, and start coding

○ **Choose your theme**

The right theme helps you focus on your code, is easy on your eyes, and is simply more fun to use.

Tip: Use keyboard shortcut(Ctrl+K Ctrl+T)

○ Rich support for all your languages

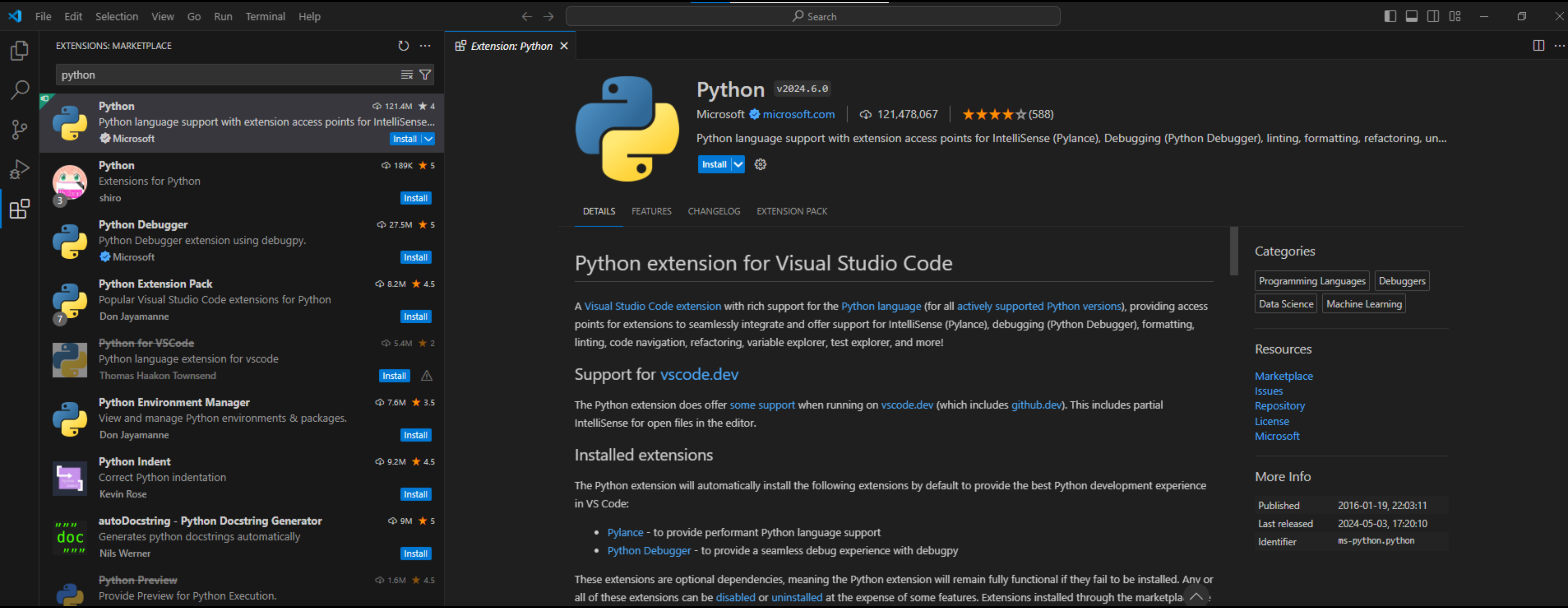
○ Tune your settings

○ Sync settings across devices

○ Unlock productivity with the Command Pale.

Code collects usage data. Read our privacy statement and learn how to opt out.

Install paket extension python



Python — 121.4M ★ 4
Python language support with extension access points for IntelliSense...
Microsoft — Install

Python — 189K ★ 5
Extensions for Python
shiro — Install

Python Debugger — 27.5M ★ 5
Python Debugger extension using debugpy.
Microsoft — Install

Python Extension Pack — 8.2M ★ 4.5
Popular Visual Studio Code extensions for Python
Don Jayamanne — Install

~~Python for VSCode~~ — 5.4M ★ 2
Python language extension for vscode
Thomas Haakon Townsend — Install

Python Environment Manager — 7.6M ★ 3.5
View and manage Python environments & packages.
Don Jayamanne — Install

Python Indent — 9.2M ★ 4.5
Correct Python indentation
Kevin Rose — Install

autoDocstring - Python Docstring Generator — 9M ★ 5
Generates python docstrings automatically
Nils Werner — Install

~~Python Preview~~ — 1.6M ★ 4.5
Provide Preview for Python Execution.

Python v2024.6.0
Microsoft microsoft.com | 121,478,067 | ★★★★☆ (588)
Python language support with extension access points for IntelliSense (Pylance), Debugging (Python Debugger), linting, formatting, refactoring, un...
Install

DETAILS FEATURES CHANGELOG EXTENSION PACK

Python extension for Visual Studio Code

A Visual Studio Code extension with rich support for the Python language (for all actively supported Python versions), providing access points for extensions to seamlessly integrate and offer support for IntelliSense (Pylance), debugging (Python Debugger), formatting, linting, code navigation, refactoring, variable explorer, test explorer, and more!

Support for vscode.dev

The Python extension does offer some support when running on vscode.dev (which includes github.dev). This includes partial IntelliSense for open files in the editor.

Installed extensions

The Python extension will automatically install the following extensions by default to provide the best Python development experience in VS Code:

- Pylance - to provide performant Python language support
- Python Debugger - to provide a seamless debug experience with debugpy

These extensions are optional dependencies, meaning the Python extension will remain fully functional if they fail to be installed. Any or all of these extensions can be disabled or uninstalled at the expense of some features. Extensions installed through the marketpla

Categories

Programming Languages | Debuggers | Data Science | Machine Learning

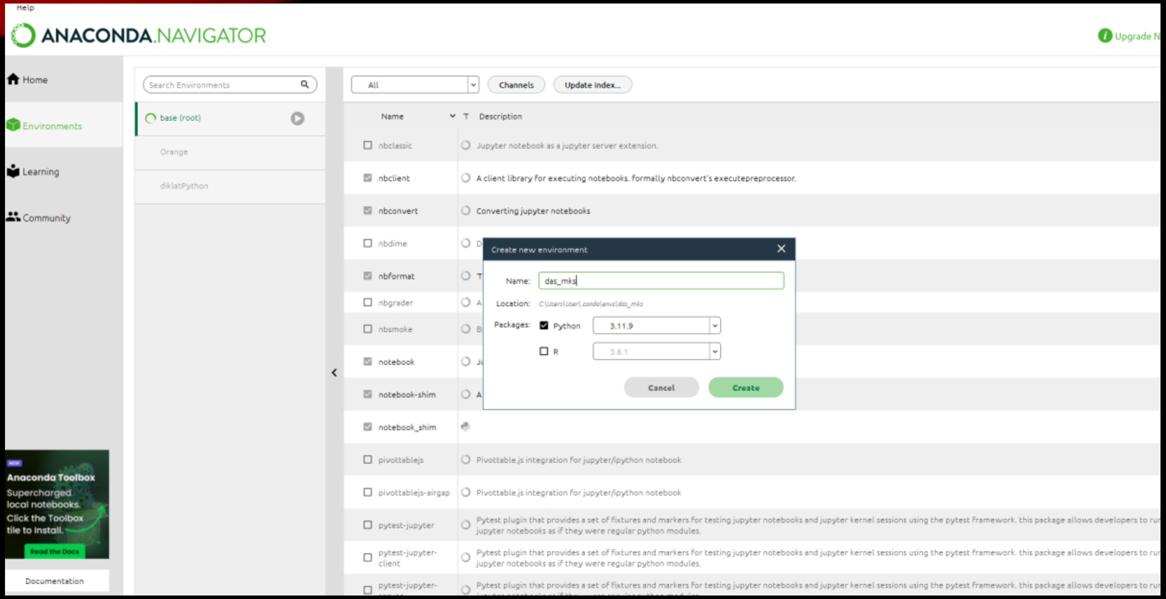
Resources

Marketplace
Issues
Repository
License
Microsoft

More Info

Published	2016-01-19, 22:03:11
Last released	2024-05-03, 17:20:10
Identifier	ms-python.python

Membuat virtual environment



	Name	T	Description
□	nbclassic	○	Jupyter notebook as a jupyter server extension.
☑	nbclient	○	A client library for executing notebooks. formally nbconvert's executepreprocessor.
☑	nbconvert	○	Converting jupyter notebooks
□	nbdime	○	D
☑	nbformat	○	T
□	nbgrader	○	A
□	nbsmoke	○	B
☑	notebook	○	Ju
☑	notebook-shim	○	A
☑	notebook_shim		
□	pivottablejs	○	Pivottable.js integration for jupyter/ipython notebook
□	pivottablejs-airgap	○	Pivottable.js integration for jupyter/ipython notebook
□	pytest-jupyter	○	Pytest plugin that provides a set of fixtures and markers for testing jupyter notebooks and jupyter kernel sessions using the pytest framework. this package allows developers to ru jupyter notebooks as if they were regular python modules.
□	pytest-jupyter-client	○	Pytest plugin that provides a set of fixtures and markers for testing jupyter notebooks and jupyter kernel sessions using the pytest framework. this package allows developers to ru jupyter notebooks as if they were regular python modules.
□	pytest-jupyter-	○	Pytest plugin that provides a set of fixtures and markers for testing jupyter notebooks and jupyter kernel sessions using the pytest framework. this package allows developers to ru

Create new environment

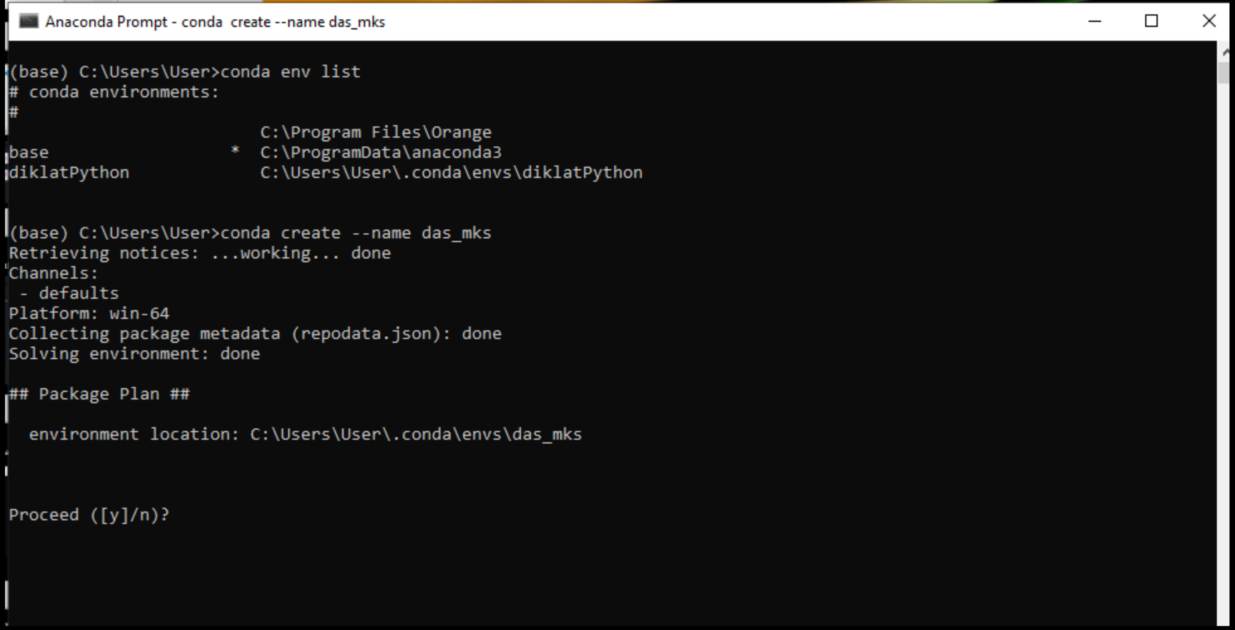
Name: das_mks

Location: C:\Users\User\.conda\envs\das_mks

Packages: ☑ Python 3.11.9

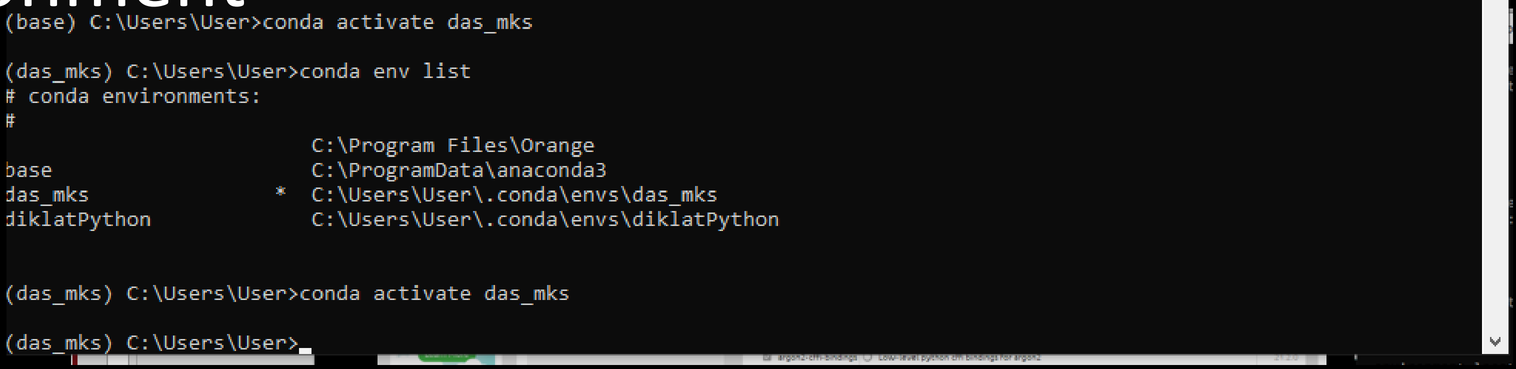
□ R 3.6.1

Cancel Create


Anaconda Prompt - conda create --name das_mks

```
(base) C:\Users\User>conda env list
# conda environments:
#
                         C:\Program Files\Orange
base                  *  C:\ProgramData\anaconda3
diklatPython             C:\Users\User\.conda\envs\diklatPython


(base) C:\Users\User>conda create --name das_mks
Retrieving notices: ...working... done
Channels:
 - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: C:\Users\User\.conda\envs\das_mks



Proceed ([y]/n)?
```

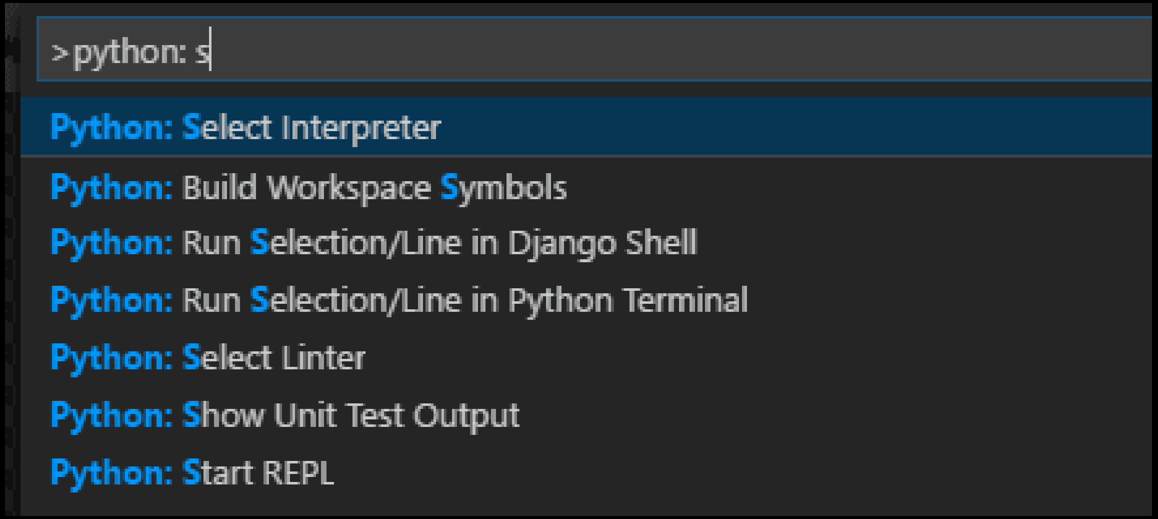
Mengaktifkan virtual environment



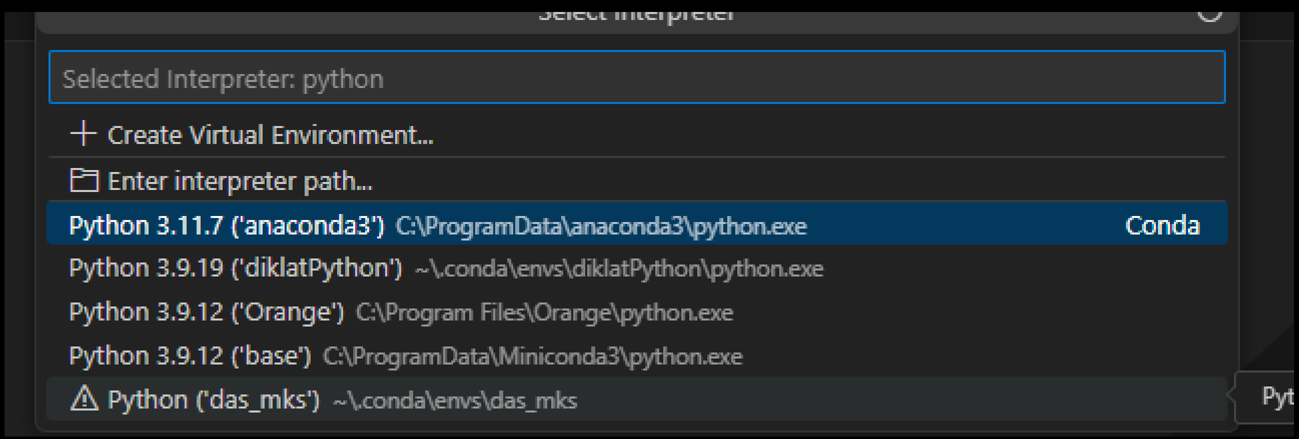
```
(base) C:\Users\User>conda activate das_mks

(das_mks) C:\Users\User>conda env list
# conda environments:
#
                         C:\Program Files\Orange
base                     C:\ProgramData\anaconda3
das_mks               *  C:\Users\User\.conda\envs\das_mks
diklatPython             C:\Users\User\.conda\envs\diklatPython


(das_mks) C:\Users\User>conda activate das_mks

(das_mks) C:\Users\User>_
```

Select python interpreter

Select and activate an environment **Python: Select Interpreter** command from the **Command Palette** (Ctrl+Shift+P).



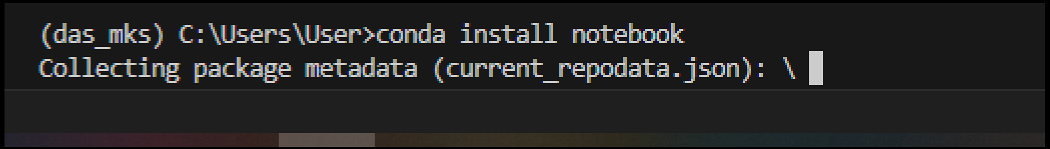
```
>python: s
Python: Select Interpreter
Python: Build Workspace Symbols
Python: Run Selection/Line in Django Shell
Python: Run Selection/Line in Python Terminal
Python: Select Linter
Python: Show Unit Test Output
Python: Start REPL
```



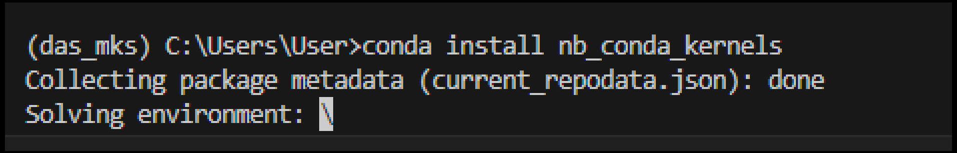
```
Select Interpreter
Selected Interpreter: python
+ Create Virtual Environment...
Enter interpreter path...
Python 3.11.7 ('anaconda3') C:\ProgramData\anaconda3\python.exe          Conda
Python 3.9.19 ('diklatPython') ~\.conda\envs\diklatPython\python.exe
Python 3.9.12 ('Orange') C:\Program Files\Orange\python.exe
Python 3.9.12 ('base') C:\ProgramData\Miniconda3\python.exe
⚠ Python ('das_mks') ~\.conda\envs\das_mks                                 Pyt
```

Install library

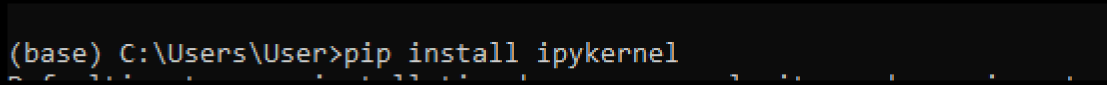
- Install jupyter notebook
- Install nb_conda_kernels / ipython kernel
- Install streamlit dll (requirements.txt)



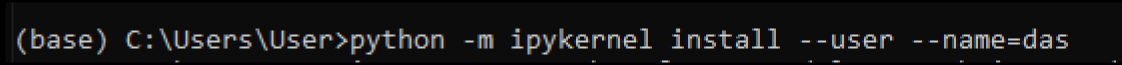
```
(das_mks) C:\Users\User>conda install notebook
Collecting package metadata (current_repodata.json): \
```



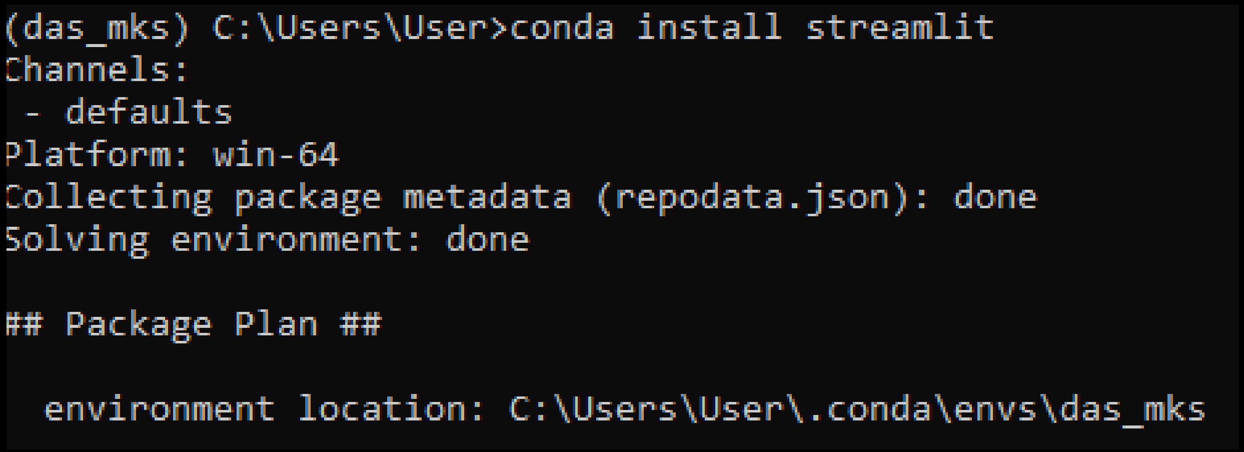
```
(das_mks) C:\Users\User>conda install nb_conda_kernels
Collecting package metadata (current_repodata.json): done
Solving environment: \
```



```
(base) C:\Users\User>pip install ipykernel
```



```
(base) C:\Users\User>python -m ipykernel install --user --name=das
```



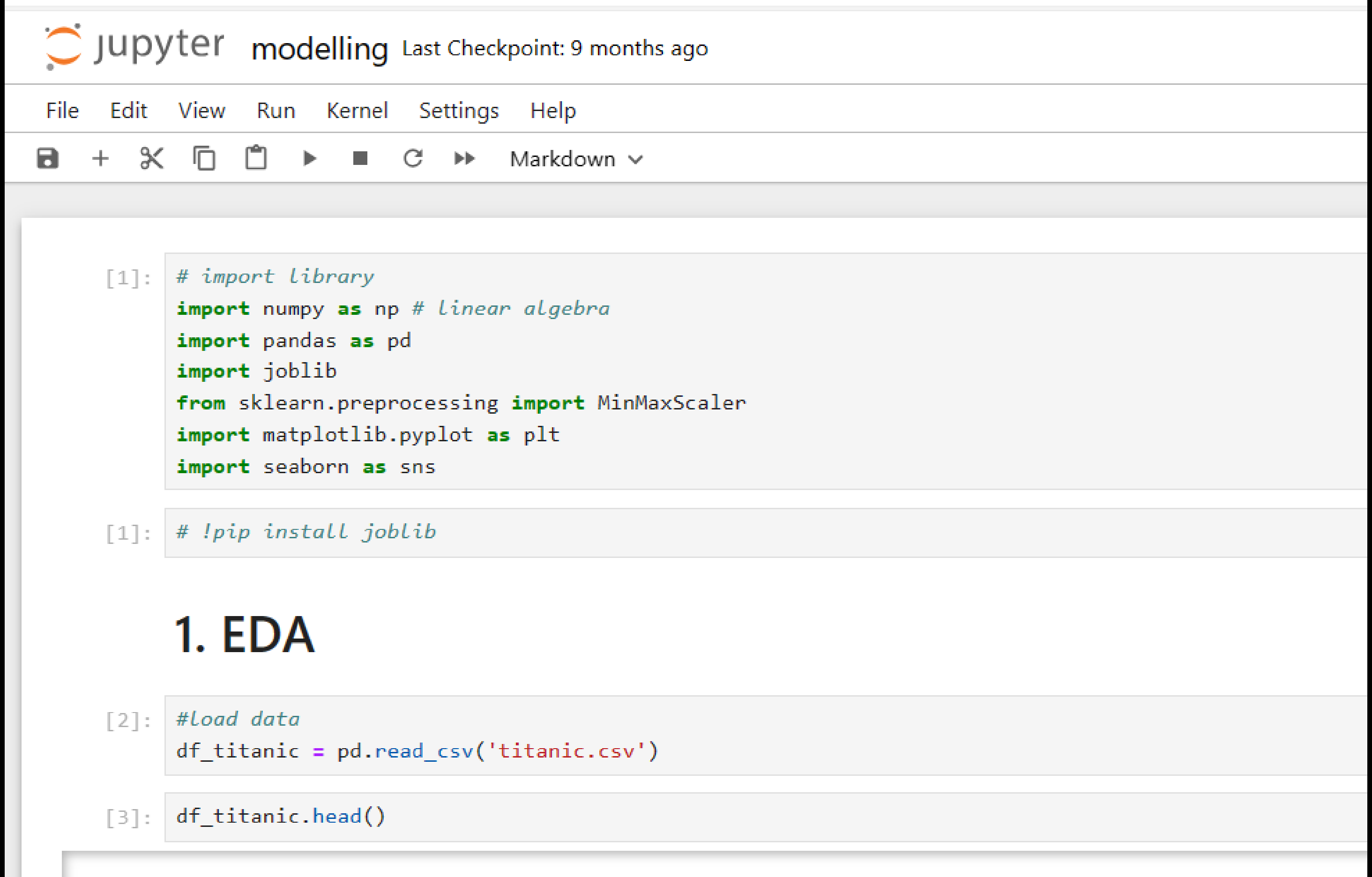
```
(das_mks) C:\Users\User>conda install streamlit
Channels:
 - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: C:\Users\User\.conda\envs\das_mks
```

MODELLING

- Membuat model
- Export model

MODELLING

1. Membuat EDA
2. Membuat Model
3. Export Model



```
[1]: # import library
     import numpy as np # linear algebra
     import pandas as pd
     import joblib
     from sklearn.preprocessing import MinMaxScaler
     import matplotlib.pyplot as plt
     import seaborn as sns
```

```
[1]: # !pip install joblib
```

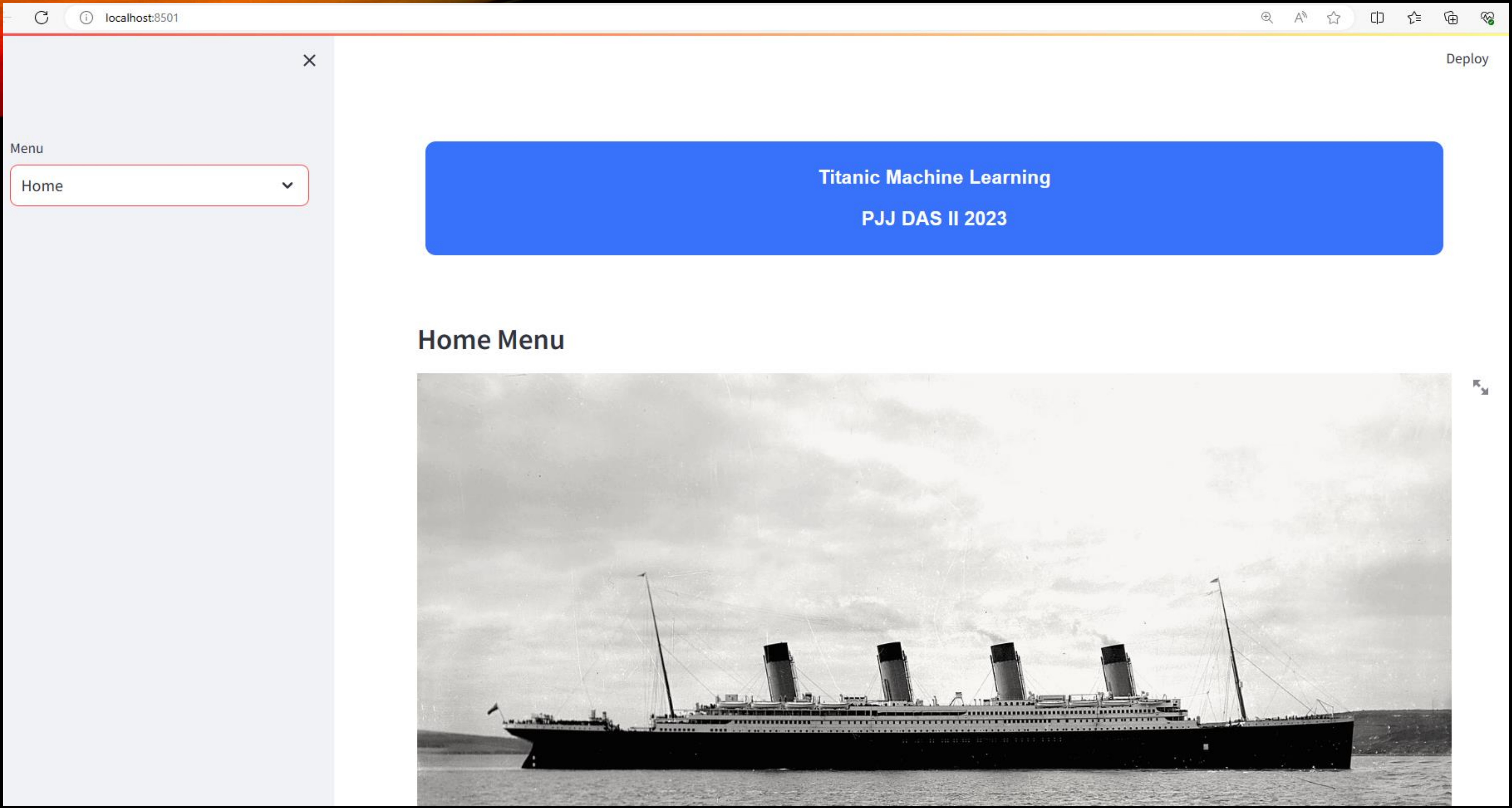
1. EDA

```
[2]: #load data
     df_titanic = pd.read_csv('titanic.csv')
```

```
[3]: df_titanic.head()
```

PROJECT LOCAL

1. Halaman Home
2. Halaman EDA
3. Halaman Predict



Menu

Home

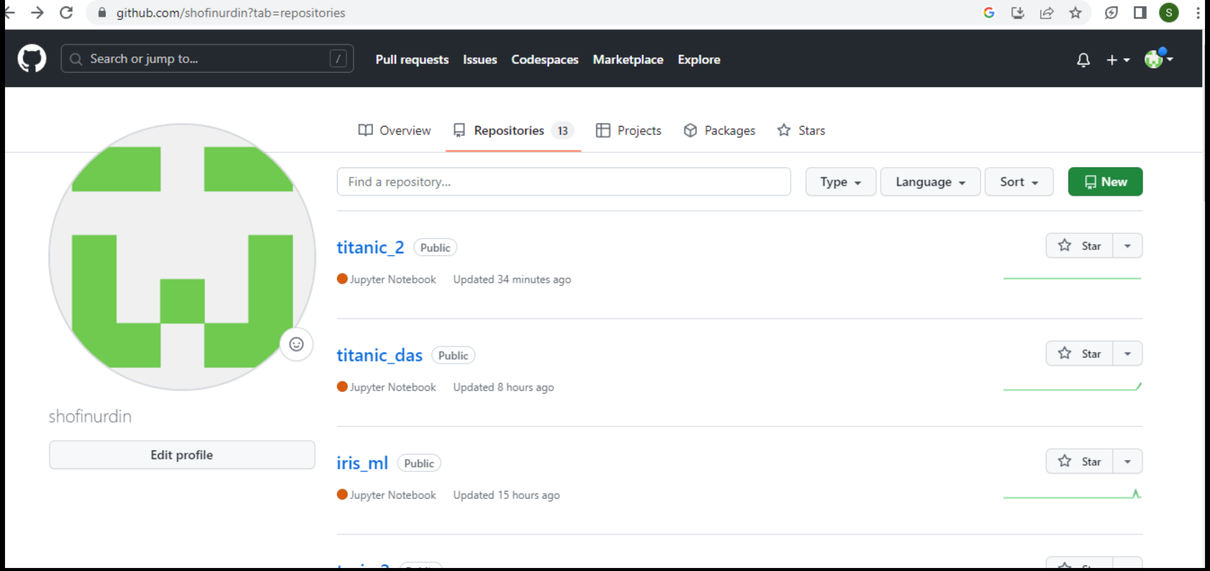
Titanic Machine Learning

PJJ DAS II 2023

Home Menu

UPLOAD KE GITHUB

1. Membuat akun github
2. Membuat repository
3. Install gitlab
4. Upload project ke github

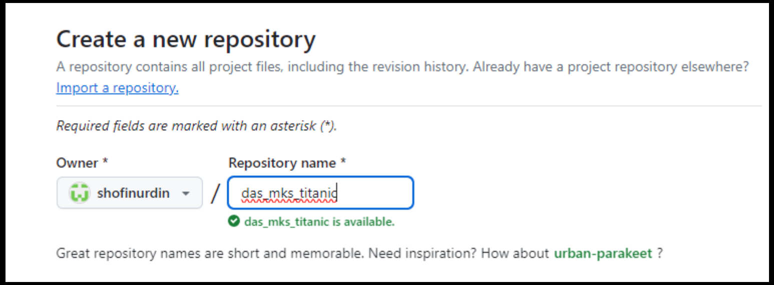


shofinurdin

titanic_2 Public
Jupyter Notebook Updated 34 minutes ago

titanic_das Public
Jupyter Notebook Updated 8 hours ago

iris_ml Public
Jupyter Notebook Updated 15 hours ago



Create a new repository

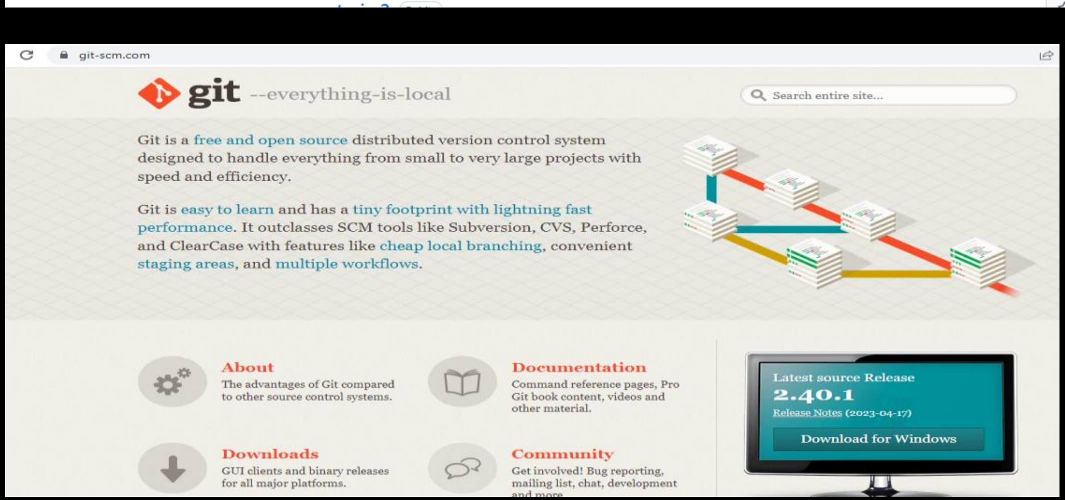
A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Required fields are marked with an asterisk (*).

Owner * shofinurdin / Repository name * das_mks_titanic

das_mks_titanic is available.

Great repository names are short and memorable. Need inspiration? How about urban-parakeet ?



Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is easy to learn and has a tiny footprint with lightning fast performance. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like cheap local branching, convenient staging areas, and multiple workflows.

About
The advantages of Git compared to other source control systems.

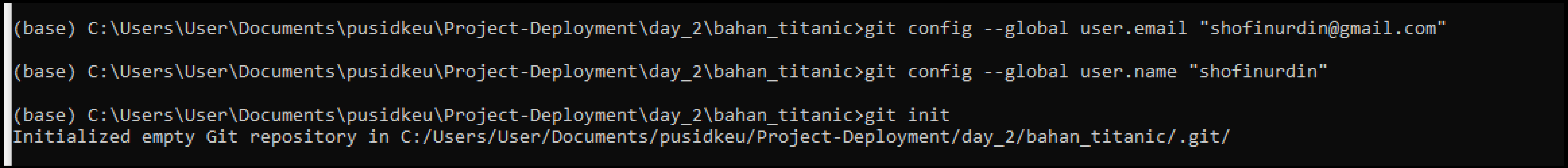
Documentation
Command reference pages, Pro Git book content, videos and other material.

Downloads
GUI clients and binary releases for all major platforms.

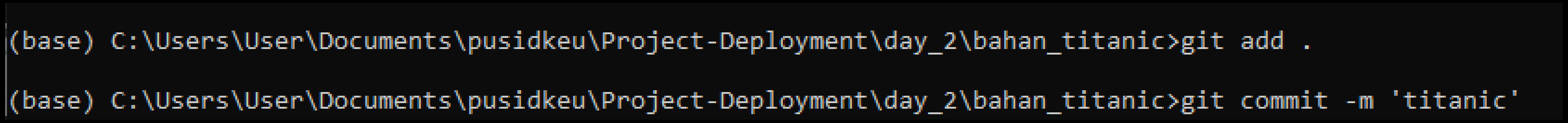
Community
Get involved! Bug reporting, mailing list, chat, development and more.

Latest source Release
2.40.1
Release Notes (2023-04-17)
Download for Windows

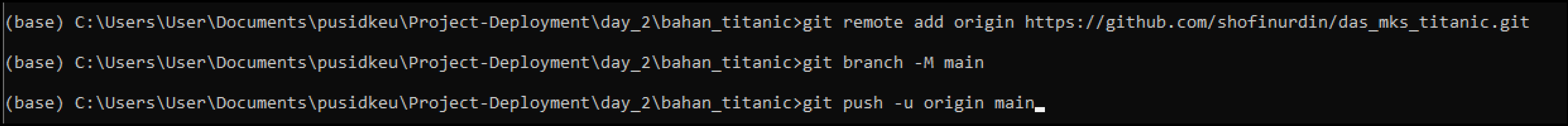
UPLOD PROJECT



```
(base) C:\Users\User\Documents\pusidkeu\Project-Deployment\day_2\bahan_titanic>git config --global user.email "shofinurdin@gmail.com"

(base) C:\Users\User\Documents\pusidkeu\Project-Deployment\day_2\bahan_titanic>git config --global user.name "shofinurdin"

(base) C:\Users\User\Documents\pusidkeu\Project-Deployment\day_2\bahan_titanic>git init
Initialized empty Git repository in C:/Users/User/Documents/pusidkeu/Project-Deployment/day_2/bahan_titanic/.git/
```



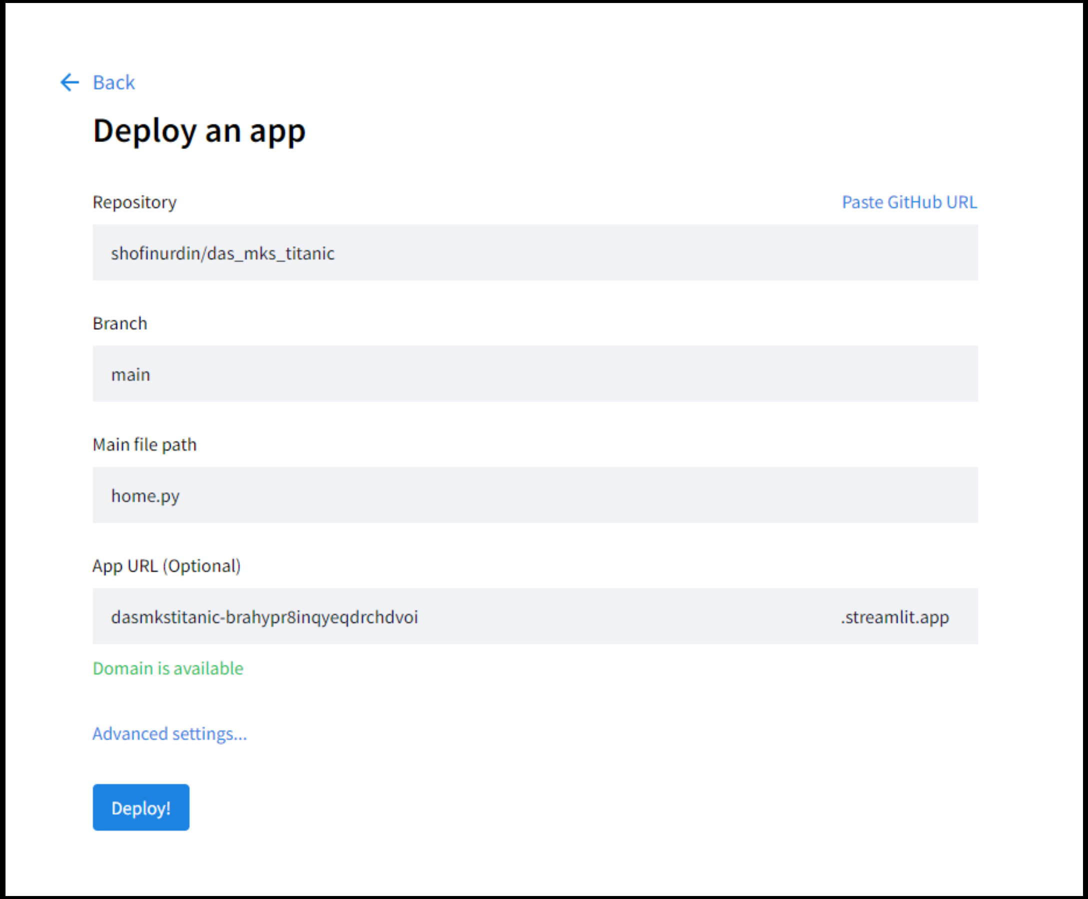
```
(base) C:\Users\User\Documents\pusidkeu\Project-Deployment\day_2\bahan_titanic>git add .

(base) C:\Users\User\Documents\pusidkeu\Project-Deployment\day_2\bahan_titanic>git commit -m 'titanic'
```



```
(base) C:\Users\User\Documents\pusidkeu\Project-Deployment\day_2\bahan_titanic>git remote add origin https://github.com/shofinurdin/das_mks_titanic.git

(base) C:\Users\User\Documents\pusidkeu\Project-Deployment\day_2\bahan_titanic>git branch -M main

(base) C:\Users\User\Documents\pusidkeu\Project-Deployment\day_2\bahan_titanic>git push -u origin main
```

DEPLOY PROJECT DI STREAMLIT CLOUD

1. Membuat akun streamlit
2. Create Project dari github



Deploy an app

Repository: shofinurdin/das_mks_titanic

Branch: main

Main file path: home.py

App URL (Optional): dasmkstitanic-brahypr8inqyeqdrchdvoi .streamlit.app

Domain is available

TUGAS

Deploy Iris Machine Learning

1. Membuat model
2. Eksport model
3. Import model di streamlit
4. Membuat halaman EDA
5. Membuat halaman predict
6. Upload ke github
7. Deploy ke streamlit cloud

Hasil.>>