

Data Annotation Tool Installation and Setup

Required packages:

1. Python (python3 for ubuntu) latest version or ≥ 3.10
2. Pip (if you are using the anaconda then no need of pip)

Once you installed these requirements successfully. Follow the below procedure based on your operating system. For any other linux operating system (other than ubuntu), just follow the ubuntu installation setup. **Always contact your respective student coordinators to resolve your installation issues.**

Installation setup in Windows

1) Install the python and setup the environment

Use the following video link to install and setup the python in your windows operating system.

Video link: <https://www.youtube.com/watch?v=Kn1HF3oD19c>

2) Install django and numpy packages

If you are using anaconda, then open the anaconda prompt and type “**conda install django**”. It will install the django package using anaconda.

Otherwise, open the command prompt and type “**pip install django**”. It will install the django package using the python.

```
Anaconda Prompt - conda de x + v

(sample) C:\Users\maada>pip install django
Collecting django
  Using cached Django-4.1.7-py3-none-any.whl (8.1 MB)
Collecting sqlparse>=0.2.2
  Using cached sqlparse-0.4.3-py3-none-any.whl (42 kB)
Collecting tzdata
  Downloading tzdata-2023.3-py2.py3-none-any.whl (341 kB)
    341.8/341.8 kB 1.5 MB/s eta 0:00:00
Collecting asgiref<4,>=3.5.2
  Using cached asgiref-3.6.0-py3-none-any.whl (23 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
WARNING: The script sqlformat.exe is installed in 'C:\Users\maada\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\Scripts' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
WARNING: The script django-admin.exe is installed in 'C:\Users\maada\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\Scripts' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed asgiref-3.6.0 django-4.1.7 sqlparse-0.4.3 tzdata-2023.3

[notice] A new release of pip available: 22.3.1 -> 23.0.1
[notice] To update, run: C:\Users\maada\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\python.exe -m pip install --upgrade pip

(sample) C:\Users\maada>
```

In similar way, install the numpy package using

1) Anaconda:

Use “**conda install numpy**” command to install the numpy

2) pip:

Use “**pip install numpy**” command to install the numpy

You will see the output as shown in below image.

```
Anaconda Prompt - conda de x + v

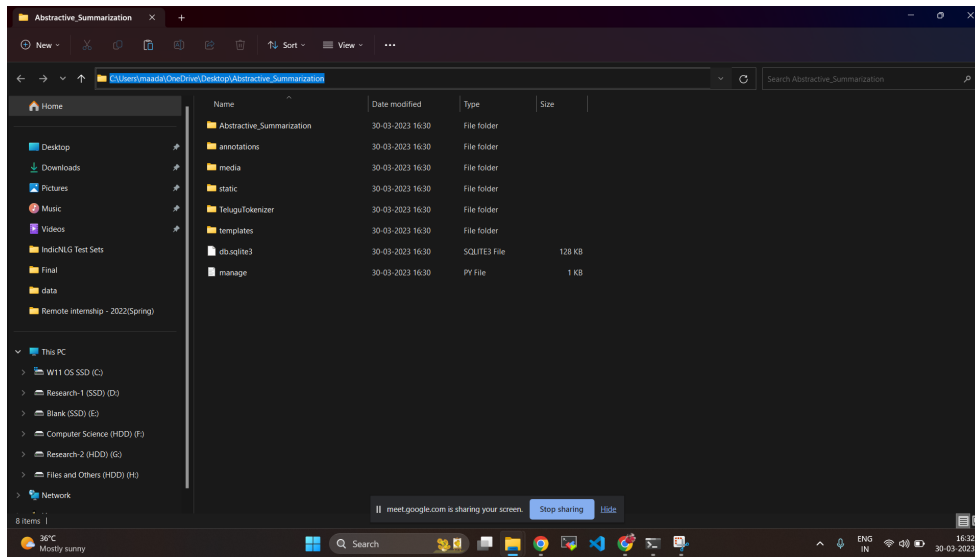
(sample) C:\Users\maada>pip install numpy
Collecting numpy
  Using cached numpy-1.24.2-cp310-cp310-win_amd64.whl (14.8 MB)
Installing collected packages: numpy
WARNING: The script f2py.exe is installed in 'C:\Users\maada\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\Scripts' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed numpy-1.24.2

[notice] A new release of pip available: 22.3.1 -> 23.0.1
[notice] To update, run: C:\Users\maada\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\python.exe -m pip install --upgrade pip

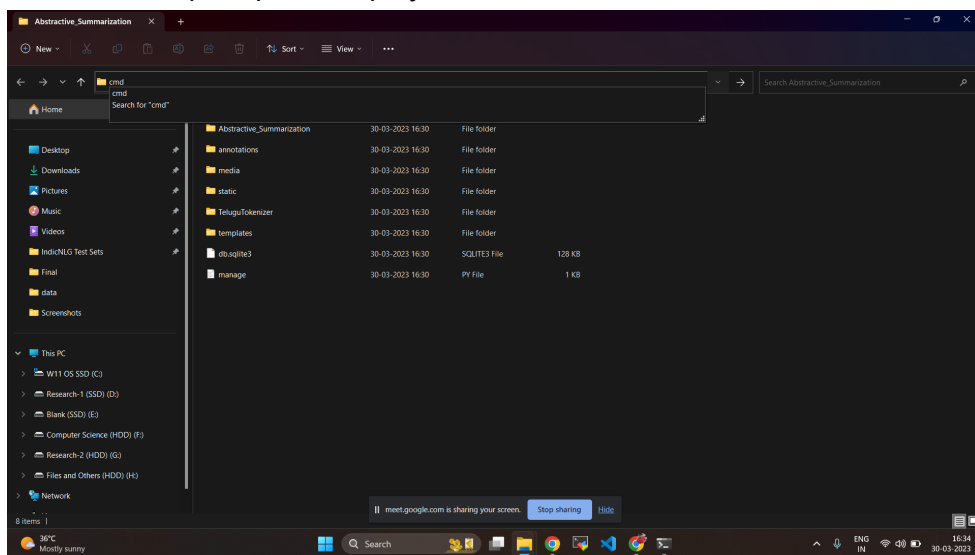
(sample) C:\Users\maada>
```

3) Run the django server

First, go to the project folder (where manage.py file resides) and in the address bar (the box where the text identified in blue color) type “**cmd**”.



Once you type “**cmd**”, the output will look like the below image. Click on “**Enter**” to open the command prompt at the project folder location.



Once you press “**Enter**”, then you will have the command prompt as like below image. Then type “**python manage.py runserver**” command to start the django server. You will find the “<http://127.0.0.1:8000/>” in the output once you run the above command.

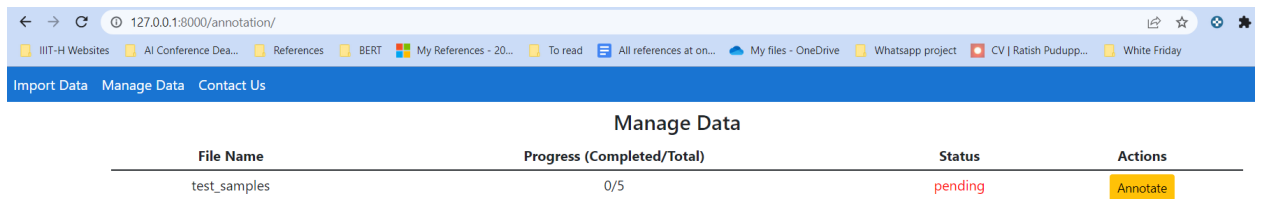
```
C:\Windows\System32\cmd.exe x + v
Microsoft Windows [Version 10.0.22621.1485]
(c) Microsoft Corporation. All rights reserved.

C:\Users\maada\OneDrive\Desktop\Abstractive_Summarization>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
March 30, 2023 - 16:35:18
Django version 4.1.7, using settings 'Abstractive_Summarization.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

4) Start the annotation tool

Now open “<http://127.0.0.1:8000/>”, in your browser to work on the data annotation task.
You will see the image as like below.



Manage Data			
File Name	Progress (Completed/Total)	Status	Actions
test_samples	0/5	pending	Annotate

Installation setup in Linux (Ubuntu)

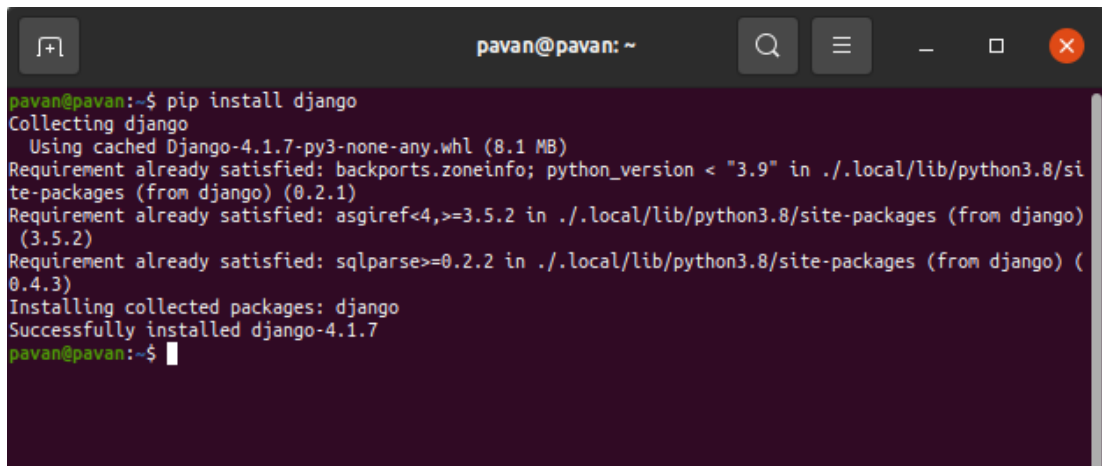
5) Install the python and setup the environment

Use the following video link to install and setup the python in your linux operating system.

Video link: <https://www.youtube.com/watch?v=z3Hdewxuuo0>

6) Install django and numpy packages

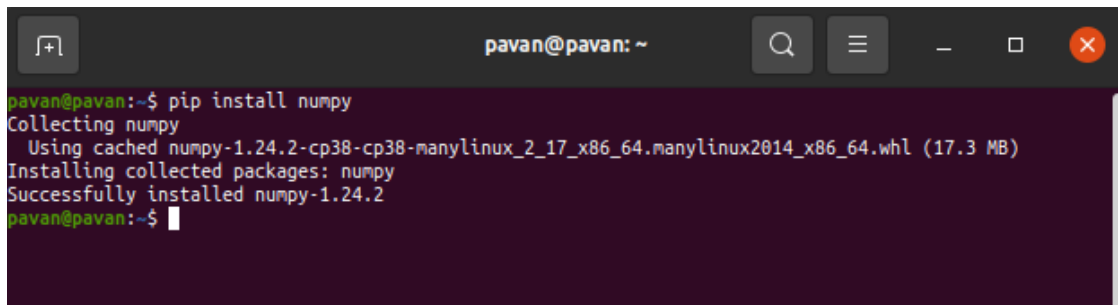
open the terminal and type “**pip install django**”. It will install the django package using the python.

A terminal window titled 'pavan@pavan: ~' with standard window controls. The command 'pip install django' has been executed. The output shows that Django 4.1.7 is being collected (8.1 MB). It also lists several requirements that are already satisfied: 'backports.zoneinfo; python_version < "3.9" in ./local/lib/python3.8/site-packages (from django) (0.2.1)', 'asgiref<4,>=3.5.2 in ./local/lib/python3.8/site-packages (from django) (3.5.2)', and 'sqlparse>=0.2.2 in ./local/lib/python3.8/site-packages (from django) (0.4.3)'. The final output is 'Installing collected packages: django' and 'Successfully installed django-4.1.7'.

```
pavan@pavan:~$ pip install django
Collecting django
  Using cached Django-4.1.7-py3-none-any.whl (8.1 MB)
Requirement already satisfied: backports.zoneinfo; python_version < "3.9" in ./local/lib/python3.8/site-packages (from django) (0.2.1)
Requirement already satisfied: asgiref<4,>=3.5.2 in ./local/lib/python3.8/site-packages (from django) (3.5.2)
Requirement already satisfied: sqlparse>=0.2.2 in ./local/lib/python3.8/site-packages (from django) (0.4.3)
Installing collected packages: django
Successfully installed django-4.1.7
pavan@pavan:~$
```

In similar way, install the numpy package using “**pip install numpy**” command to install the numpy

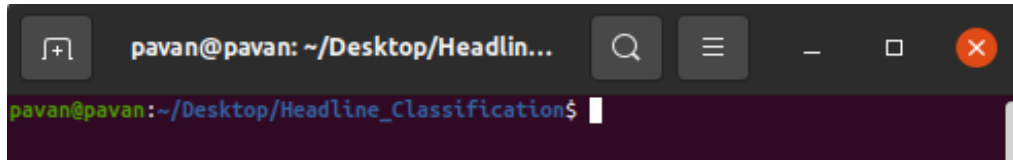
You will see the output as shown in below image.

A terminal window titled 'pavan@pavan: ~' with standard window controls. The command 'pip install numpy' has been executed. The output shows that Numpy 1.24.2 is being collected (17.3 MB). The final output is 'Installing collected packages: numpy' and 'Successfully installed numpy-1.24.2'.

```
pavan@pavan:~$ pip install numpy
Collecting numpy
  Using cached numpy-1.24.2-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (17.3 MB)
Installing collected packages: numpy
Successfully installed numpy-1.24.2
pavan@pavan:~$
```

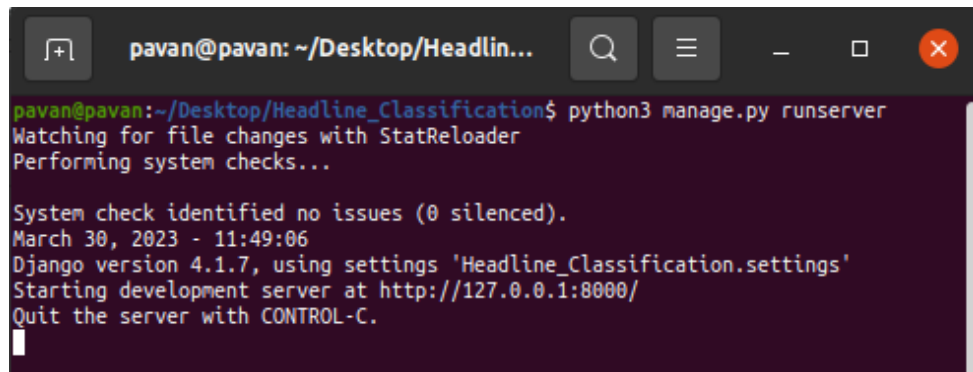
7) Run the django server

First, go to the project folder (where manage.py file resides) and right click on the location and select “**Open in Terminal**” to open the terminal at the project folder location. The terminal will look like this (here my project folder is on *Desktop* and manage.py file in *Headline_Classification* folder).



```
pavan@pavan: ~/Desktop/Headline_Classification$
```

Then type “**python manage.py runserver**” command to start the django server. You will find the “<http://127.0.0.1:8000/>” in the output once you run the above command.

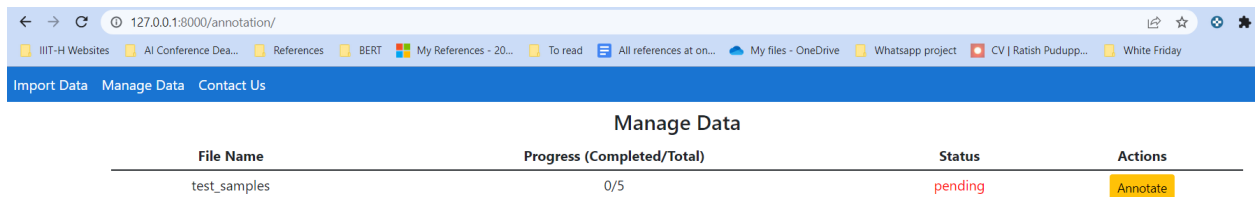


```
pavan@pavan:~/Desktop/Headline_Classification$ python3 manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
March 30, 2023 - 11:49:06
Django version 4.1.7, using settings 'Headline_Classification.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

8) Start the annotation tool

Now open “<http://127.0.0.1:8000/>”, in your browser to work on the data annotation task. You will see the image as like below.



Manage Data			
File Name	Progress (Completed/Total)	Status	Actions
test_samples	0/5	pending	Annotate