

Reforzamiento 1

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- Entorno virtual 1:

The screenshot shows the Visual Studio Code interface. On the left, the 'Project' explorer shows a folder named 'rosa_gamarra' containing subfolders 'Sesión_01' through 'Sesión_06' and a file 'requirements.txt'. A red arrow points from 'requirements.txt' in the explorer to the file in the editor. The editor displays the contents of 'requirements.txt', which lists various Python packages and their versions, such as 'cffi==1.17.1', 'clr_loader==0.2.7.post0', 'contourpy==1.3.1', 'cycler==0.12.1', 'fonttools==4.56.0', 'IronPdf==2025.3.1.6', 'kiwisolver==1.4.8', 'matplotlib==3.10.1', 'numpy==2.2.3', 'packaging==24.2', 'pandas==2.2.3', 'pillow==11.1.0', 'pycparser==2.22', 'pyparsing==3.2.1', 'python-dateutil==2.9.0.post0', 'pythonnet==3.0.5', 'pytz==2025.1', 'seaborn==0.13.2', 'six==1.17.0', and 'tzdata==2025.1'. Below the editor, the 'Terminal' panel shows the command prompt for the 'env_001_gamarra' environment. A red arrow points from the terminal to the 'requirements.txt' file in the explorer. The status bar at the bottom indicates 'Python 3.13 (env_001_gamarra)'.

```
requirements.txt
1 cffi==1.17.1
2 clr_loader==0.2.7.post0
3 contourpy==1.3.1
4 cycler==0.12.1
5 fonttools==4.56.0
6 IronPdf==2025.3.1.6
7 kiwisolver==1.4.8
8 matplotlib==3.10.1
9 numpy==2.2.3
10 packaging==24.2
11 pandas==2.2.3
12 pillow==11.1.0
13 pycparser==2.22
14 pyparsing==3.2.1
15 python-dateutil==2.9.0.post0
16 pythonnet==3.0.5
17 pytz==2025.1
18 seaborn==0.13.2
19 six==1.17.0
20 tzdata==2025.1
21
```

```
Terminal
pytz==2025.1
seaborn==0.13.2
six==1.17.0
tzdata==2025.1
(env_001_gamarra) PS C:\Users\ROSA\Documents\Python projects> pip freeze >.\requirements.txt
(env_001_gamarra) PS C:\Users\ROSA\Documents\Python projects>
```

- Entorno virtual 2:

The screenshot shows the Visual Studio Code interface. On the left, the 'Project' explorer shows a folder named 'rosa_gamarra' containing subfolders 'Sesión_01' through 'Sesión_06' and a file 'requirements.txt'. A red arrow points from 'requirements.txt' in the explorer to the file in the editor. The editor displays the contents of 'requirements.txt', which lists various Python packages and their versions, such as 'colorama==0.4.6', 'contourpy==1.3.1', 'cycler==0.12.1', 'fonttools==4.56.0', 'kiwisolver==1.4.8', 'matplotlib==3.10.1', 'numpy==2.2.3', 'packaging==24.2', 'pillow==11.1.0', 'pyparsing==3.2.1', 'python-dateutil==2.9.0.post0', 'qrcode==8.0', and 'six==1.17.0'. Below the editor, the 'Terminal' panel shows the command prompt for the 'env_002_gamarra' environment. A red arrow points from the terminal to the 'requirements.txt' file in the explorer. The status bar at the bottom indicates 'Python 3.13 (env_002_gamarra)'.

```
requirements.txt
1 colorama==0.4.6
2 contourpy==1.3.1
3 cycler==0.12.1
4 fonttools==4.56.0
5 kiwisolver==1.4.8
6 matplotlib==3.10.1
7 numpy==2.2.3
8 packaging==24.2
9 pillow==11.1.0
10 pyparsing==3.2.1
11 python-dateutil==2.9.0.post0
12 qrcode==8.0
13 six==1.17.0
14
```

```
Terminal
Windows PowerShell
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Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

(env_002_gamarra) PS C:\Users\ROSA\Documents\Python projects> pip freeze >.\requirements.txt
(env_002_gamarra) PS C:\Users\ROSA\Documents\Python projects>
```

- Entorno virtual 3:

The screenshot shows the Visual Studio Code interface. On the left, the 'Project' sidebar shows a tree view with folders 'Sesión_01' through 'Sesión_06' and a file 'requirements.txt'. A red arrow points from 'requirements.txt' in the sidebar to the file in the editor. The editor displays the contents of 'requirements.txt' with the following dependencies: numpy==2.2.3, opencv-python==4.11.0.86, pandas==2.2.3, PyMySQL==1.1.1, python-dateutil==2.9.0.post0, pytz==2025.1, six==1.17.0, and tzdata==2025.1. Below the editor is a terminal window titled 'Terminal Local'. It shows the command 'pip freeze > .\requirements.txt' being executed in the 'env_003_gamarra' environment. A red arrow points from the terminal output to the 'env_003_gamarra' label in the status bar at the bottom right, which also indicates 'Python 3.13'.

```
requirements.txt
1 numpy==2.2.3
2 opencv-python==4.11.0.86
3 pandas==2.2.3
4 PyMySQL==1.1.1
5 python-dateutil==2.9.0.post0
6 pytz==2025.1
7 six==1.17.0
8 tzdata==2025.1
9

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(env_003_gamarra) PS C:\Users\ROSA\Documents\Python projects> pip freeze > .\requirements.txt
(env_003_gamarra) PS C:\Users\ROSA\Documents\Python projects>
```

- Entorno virtual 4:

The screenshot shows the Visual Studio Code interface. On the left, the 'Project' sidebar shows a tree view with folders 'Sesión_01' through 'Sesión_06' and a file 'requirements.txt'. A red arrow points from 'requirements.txt' in the sidebar to the file in the editor. The editor displays the contents of 'requirements.txt' with the following dependencies: asgiref==3.8.1, awscli==1.38.8, boto3==1.37.8, colorama==0.4.6, Django==5.2b1, docutils==0.16, jmespath==1.0.1, pyasn1==0.6.1, python-dateutil==2.9.0.post0, PyYAML==6.0.2, rsa==4.7.2, s3transfer==0.11.4, six==1.17.0, spark==0.2.1, sqlparse==0.5.3, tzdata==2025.1, and urllib3==2.3.0. Below the editor is a terminal window titled 'Terminal Local'. It shows the command 'pip freeze > .\requirements.txt' being executed in the 'env_004_gamarra' environment. A red arrow points from the terminal output to the 'env_004_gamarra' label in the status bar at the bottom right, which also indicates 'Python 3.13'.

```
requirements.txt
1 asgiref==3.8.1
2 awscli==1.38.8
3 boto3==1.37.8
4 colorama==0.4.6
5 Django==5.2b1
6 docutils==0.16
7 jmespath==1.0.1
8 pyasn1==0.6.1
9 python-dateutil==2.9.0.post0
10 PyYAML==6.0.2
11 rsa==4.7.2
12 s3transfer==0.11.4
13 six==1.17.0
14 spark==0.2.1
15 sqlparse==0.5.3
16 tzdata==2025.1
17 urllib3==2.3.0
18

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(env_004_gamarra) PS C:\Users\ROSA\Documents\Python projects> pip freeze > .\requirements.txt
(env_004_gamarra) PS C:\Users\ROSA\Documents\Python projects>
```