```
!pip install streamlit
```

```
Collecting streamlit
    Downloading streamlit-1.45.1-py3-none-any.whl.metadata (8.9 kB)
  Requirement already satisfied: altair<6,>=4.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (5.5.0)
  Requirement already satisfied: blinker<2,>=1.5.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (1.9.0)
  Requirement already satisfied: cachetools<6,>=4.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (5.5.2)
  Requirement already satisfied: click<9,>=7.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (8.2.1)
  Requirement already satisfied: numpy<3,>=1.23 in /usr/local/lib/python3.11/dist-packages (from streamlit) (2.0.2)
  Requirement already satisfied: packaging<25,>=20 in /usr/local/lib/python3.11/dist-packages (from streamlit) (24.2)
  Requirement already satisfied: pandas<3,>=1.4.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (2.2.2)
  Requirement already satisfied: pillow<12,>=7.1.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (11.2.1)
  Requirement already satisfied: protobuf<7,>=3.20 in /usr/local/lib/python3.11/dist-packages (from streamlit) (5.29.4)
  Requirement already satisfied: pyarrow>=7.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (18.1.0)
  Requirement already satisfied: requests<3,>=2.27 in /usr/local/lib/python3.11/dist-packages (from streamlit) (2.32.3)
  Requirement already satisfied: tenacity<10,>=8.1.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (9.1.2)
  Requirement already satisfied: toml<2,>=0.10.1 in /usr/local/lib/python3.11/dist-packages (from streamlit) (0.10.2)
  Requirement already satisfied: typing-extensions<5,>=4.4.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (4.13.2)
  Collecting watchdog<7,>=2.1.5 (from streamlit)
    Downloading watchdog-6.0.0-py3-none-manylinux2014_x86_64.whl.metadata (44 kB)
                                              ━━━━━━━━━━ 44.3/44.3 kB 1.5 MB/s eta 0:00:00
  Requirement already satisfied: gitpython!=3.1.19,<4,>=3.0.7 in /usr/local/lib/python3.11/dist-packages (from streamlit) (3.1.44)
  Collecting pydeck<1,>=0.8.0b4 (from streamlit)
    Downloading pydeck-0.9.1-py2.py3-none-any.whl.metadata (4.1 kB)
  Requirement already satisfied: tornado<7,>=6.0.3 in /usr/local/lib/python3.11/dist-packages (from streamlit) (6.4.2)
  Requirement already satisfied: jinja2 in /usr/local/lib/python3.11/dist-packages (from altair<6,>=4.0->streamlit) (3.1.6)
  Requirement already satisfied: jsonschema>=3.0 in /usr/local/lib/python3.11/dist-packages (from altair<6,>=4.0->streamlit) (4.23.0)
  Requirement already satisfied: narwhals>=1.14.2 in /usr/local/lib/python3.11/dist-packages (from altair<6,>=4.0->streamlit) (1.40.0
  Requirement already satisfied: gitdb<5,>=4.0.1 in /usr/local/lib/python3.11/dist-packages (from gitpython!=3.1.19,<4,>=3.0.7->strea
  Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.11/dist-packages (from pandas<3,>=1.4.0->streamlit)
  Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-packages (from pandas<3,>=1.4.0->streamlit) (2025.2)
  Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.11/dist-packages (from pandas<3,>=1.4.0->streamlit) (2025.2
  Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->streamli
  Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->streamlit) (3.10)
  Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->streamlit) (2
  Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->streamlit) (26
  Requirement already satisfied: smmap<6,>=3.0.1 in /usr/local/lib/python3.11/dist-packages (from gitdb<5,>=4.0.1->gitpython!=3.1.19,<
  Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.11/dist-packages (from jinja2->altair<6,>=4.0->streamlit)
  Requirement already satisfied: attrs>=22.2.0 in /usr/local/lib/python3.11/dist-packages (from jsonschema>=3.0->altair<6,>=4.0->strea
  Requirement already satisfied: jsonschema-specifications>=2023.03.6 in /usr/local/lib/python3.11/dist-packages (from jsonschema>=3.0
  Requirement already satisfied: referencing>=0.28.4 in /usr/local/lib/python3.11/dist-packages (from jsonschema>=3.0->altair<6,>=4.0
  Requirement already satisfied: rpds-py>=0.7.1 in /usr/local/lib/python3.11/dist-packages (from jsonschema>=3.0->altair<6,>=4.0->stre
  Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.8.2->pandas<3,>=1.4.0->s
  Downloading streamlit-1.45.1-py3-none-any.whl (9.9 MB)
                                              ━━━━━━━━━━ 9.9/9.9 MB 24.6 MB/s eta 0:00:00
  Downloading pydeck-0.9.1-py2.py3-none-any.whl (6.9 MB)
                                              ━━━━━━━━━━ 6.9/6.9 MB 21.5 MB/s eta 0:00:00
  Downloading watchdog-6.0.0-py3-none-manylinux2014_x86_64.whl (79 kB)
                                              ━━━━━━━━━━ 79.1/79.1 kB 4.4 MB/s eta 0:00:00
  Installing collected packages: watchdog, pydeck, streamlit
  Successfully installed pydeck-0.9.1 streamlit-1.45.1 watchdog-6.0.0
```

```
! pip install pyngrok
```

```
Collecting pyngrok
    Downloading pyngrok-7.2.9-py3-none-any.whl.metadata (9.3 kB)
  Requirement already satisfied: PyYAML>=5.1 in /usr/local/lib/python3.11/dist-packages (from pyngrok) (6.0.2)
  Downloading pyngrok-7.2.9-py3-none-any.whl (25 kB)
  Installing collected packages: pyngrok
  Successfully installed pyngrok-7.2.9
```

Below three line for mount drive to collab & take/fetech app.py file from drive

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
```

```
!cp app.py /content/drive/MyDrive/
```

```
cp: cannot stat 'app.py': No such file or directory
```

```
!cp /content/drive/MyDrive/app.py .
```

```
! streamlit run app.py &>/dev/null&
```

```
! ngrok authtoken 2Akhze36YdMtB948UXdjukt1qur_KiE2FdfyUruGBWHk7DfU
```

```
Authtoken saved to configuration file: /root/.config/ngrok/ngrok.yml
```

```
!wget https://bin.equinox.io/c/4VmDzA7iaHb/ngrok-stable-linux-amd64.zip
```

```
--2025-06-03 16:14:01--  https://bin.equinox.io/c/4VmDzA7iaHb/ngrok-stable-linux-amd64.zip
Resolving bin.equinox.io (bin.equinox.io)... 35.71.179.82, 75.2.60.68, 99.83.220.108, ...
Connecting to bin.equinox.io (bin.equinox.io)|35.71.179.82|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 13921656 (13M) [application/octet-stream]
Saving to: 'ngrok-stable-linux-amd64.zip'

ngrok-stable-linux- 100%[===================>]  13.28M  65.1MB/s    in 0.2s

2025-06-03 16:14:02 (65.1 MB/s) - 'ngrok-stable-linux-amd64.zip' saved [13921656/13921656]
```

```
!unsip ngrok-stable-linux-amd64.zip
```

```
/bin/bash: line 1: unsip: command not found
```

```
get_ipython().system_raw('./ngrok http 8501 &')
```

```
! curl -s http://localhost:4040/spi/tunnels | python3 -c \
 "import sys", json; print(json.load(sys.stdin)['tunnels'][0]['public_url'])"
```

```
/bin/bash: -c: line 1: syntax error near unexpected token `json.load'
/bin/bash: -c: line 1: ` curl -s http://localhost:4040/spi/tunnels | python3 -c   "import sys", json; print(json.load(sys.stdin)['tu
```

```
!wget -q -O - ipv4.icanhazip.com
```

```
34.73.192.232
```

```
! streamlit run app.py & npx localtunnel --port 8501
```

```
•••    Collecting usage statistics. To deactivate, set browser.gatherUsageStats to false.

       You can now view your Streamlit app in your browser.

       Local URL: http://localhost:8501
       Network URL: http://172.28.0.12:8501
       External URL: http://34.73.192.232:8501

⸛⸝ ⁝⸱⸪⸱⸻your url is: https://eager-roses-find.loca.lt
```