

```
pip install streamlit
```

```
Collecting streamlit
  Downloading streamlit-1.30.0-py2.py3-none-any.whl (8.4 MB)
    8.4/8.4 MB 22.5 MB/s eta 0:00:00
Requirement already satisfied: altair<6,>=4.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (4.2.2)
Requirement already satisfied: blinker<2,>=1.0.0 in /usr/lib/python3/dist-packages (from streamlit) (1.4)
Requirement already satisfied: cachetools<6,>=4.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (5.3.2)
Requirement already satisfied: click<9,>=7.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (8.1.7)
Requirement already satisfied: importlib-metadata<8,>=1.4 in /usr/local/lib/python3.10/dist-packages (from streamlit) (7.0.1)
Requirement already satisfied: numpy<2,>=1.19.3 in /usr/local/lib/python3.10/dist-packages (from streamlit) (1.23.5)
Requirement already satisfied: packaging<24,>=16.8 in /usr/local/lib/python3.10/dist-packages (from streamlit) (23.2)
Requirement already satisfied: pandas<3,>=1.3.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (1.5.3)
Requirement already satisfied: pillow<11,>=7.1.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (9.4.0)
Requirement already satisfied: protobuf<5,>=3.20 in /usr/local/lib/python3.10/dist-packages (from streamlit) (3.20.3)
Requirement already satisfied: pyarrow>=6.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (10.0.1)
Requirement already satisfied: python-dateutil<3,>=2.7.3 in /usr/local/lib/python3.10/dist-packages (from streamlit) (2.8.2)
Requirement already satisfied: requests<3,>=2.27 in /usr/local/lib/python3.10/dist-packages (from streamlit) (2.31.0)
Requirement already satisfied: rich<14,>=10.14.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (13.7.0)
Requirement already satisfied: tenacity<9,>=8.1.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (8.2.3)
Requirement already satisfied: toml<2,>=0.10.1 in /usr/local/lib/python3.10/dist-packages (from streamlit) (0.10.2)
Requirement already satisfied: typing-extensions<5,>=4.3.0 in /usr/local/lib/python3.10/dist-packages (from streamlit) (4.5.0)
Requirement already satisfied: tzlocal<6,>=1.1 in /usr/local/lib/python3.10/dist-packages (from streamlit) (5.2)
Collecting validators<1,>=0.2 (from streamlit)
  Downloading validators-0.22.0-py3-none-any.whl (26 kB)
Collecting gitpython!=3.1.19,<4,>=3.0.7 (from streamlit)
  Downloading GitPython-3.1.41-py3-none-any.whl (196 kB)
    196.4/196.4 kB 21.5 MB/s eta 0:00:00
Collecting pydeck<1,>=0.8.0b4 (from streamlit)
  Downloading pydeck-0.8.1b0-py2.py3-none-any.whl (4.8 MB)
    4.8/4.8 MB 53.5 MB/s eta 0:00:00
Requirement already satisfied: tornado<7,>=6.0.3 in /usr/local/lib/python3.10/dist-packages (from streamlit) (6.3.2)
Collecting watchdog>=2.1.5 (from streamlit)
  Downloading watchdog-3.0.0-py3-none-manylinux2014_x86_64.whl (82 kB)
    82.1/82.1 kB 9.4 MB/s eta 0:00:00
Requirement already satisfied: entrypoints in /usr/local/lib/python3.10/dist-packages (from altair<6,>=4.0->streamlit) (0.4)
Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from altair<6,>=4.0->streamlit) (3.1.3)
Requirement already satisfied: jsonschema>=3.0 in /usr/local/lib/python3.10/dist-packages (from altair<6,>=4.0->streamlit) (4.19.0)
Requirement already satisfied: toolz in /usr/local/lib/python3.10/dist-packages (from altair<6,>=4.0->streamlit) (0.12.0)
Collecting gitdb<5,>=4.0.1 (from gitpython!=3.1.19,<4,>=3.0.7->streamlit)
  Downloading gitdb-4.0.11-py3-none-any.whl (62 kB)
    62.7/62.7 kB 7.9 MB/s eta 0:00:00
Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.10/dist-packages (from importlib-metadata<8,>=1.4->streamlit)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas<3,>=1.3.0->streamlit) (2023.3)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil<3,>=2.7.3->streamlit) (1)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.27->streamlit) (3.6)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.27->streamlit) (3.6)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.27->streamlit)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.27->streamlit)
Requirement already satisfied: markdown-it-py>=2.2.0 in /usr/local/lib/python3.10/dist-packages (from rich<14,>=10.14.0->streamlit)
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /usr/local/lib/python3.10/dist-packages (from rich<14,>=10.14.0->streamlit)
Collecting smmap<6,>=3.0.1 (from gitdb<5,>=4.0.1->gitpython!=3.1.19,<4,>=3.0.7->streamlit)
  Downloading smmap-5.0.1-py3-none-any.whl (24 kB)
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages (from jinja2->altair<6,>=4.0->streamlit)
Requirement already satisfied: attrs>=22.2.0 in /usr/local/lib/python3.10/dist-packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit)
Requirement already satisfied: jsonschema-specifications>=2023.03.6 in /usr/local/lib/python3.10/dist-packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit)
Requirement already satisfied: referencing>=0.28.4 in /usr/local/lib/python3.10/dist-packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit)
Requirement already satisfied: rpds-py>=0.7.1 in /usr/local/lib/python3.10/dist-packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit)
Requirement already satisfied: mdurl~>0.1 in /usr/local/lib/python3.10/dist-packages (from markdown-it-py>=2.2.0->rich<14,>=10.14.0->streamlit)
```

```
%writefile app.py
```

```
Writing app.py
```

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

```
35.239.92.75
```

```
!pip install --upgrade streamlit
```

```
Traceback (most recent call last):
  File "/usr/local/bin/pip3", line 5, in <module>
    from pip._internal.cli.main import main
  File "/usr/local/lib/python3.10/dist-packages/pip/_internal/cli/main.py", line 10, in <module>
    from pip._internal.cli.autocompletion import autocomplete
  File "/usr/local/lib/python3.10/dist-packages/pip/_internal/cli/autocompletion.py", line 10, in <module>
    from pip._internal.cli.main_parser import create_main_parser
  File "/usr/local/lib/python3.10/dist-packages/pip/_internal/cli/main_parser.py", line 9, in <module>
    from pip._internal.build_env import get_runnable_pip
  File "/usr/local/lib/python3.10/dist-packages/pip/_internal/build_env.py", line 15, in <module>
    from pip._vendor.packaging.requirements import Requirement
  File "/usr/local/lib/python3.10/dist-packages/pip/_vendor/packaging/requirements.py", line 10, in <module>
    from pip._vendor.pyparsing import ( # noqa
```

```

File "/usr/local/lib/python3.10/dist-packages/pip/_vendor/pyparsing/__init__.py", line 140, in <module>
    from .core import __diag__, __compat__
File "/usr/local/lib/python3.10/dist-packages/pip/_vendor/pyparsing/core.py", line 46, in <module>
    from .results import ParseResults, _ParseResultsWithOffset
File "/usr/local/lib/python3.10/dist-packages/pip/_vendor/pyparsing/results.py", line 3, in <module>
    import pprint
File "/usr/lib/python3.10/pprint.py", line 38, in <module>
    import dataclasses as _dataclasses
File "/usr/lib/python3.10/dataclasses.py", line 5, in <module>
    import inspect
File "/usr/lib/python3.10/inspect.py", line 38, in <module>
    import dis
File "/usr/lib/python3.10/dis.py", line 194, in <module>
    _Instruction = collections.namedtuple("_Instruction",
File "/usr/lib/python3.10/collections/__init__.py", line 414, in namedtuple
    __new__ = eval(code, namespace)
File "<string>", line 1, in <module>
KeyboardInterrupt
^C

```

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

```

[.....] / rollbackFailedOptional: verb npm-session af8e1660fcd5fb
Collecting usage statistics. To deactivate, set browser.gatherUsageStats to False.

```

You can now view your Streamlit app in your browser.

Network URL: <http://172.28.0.12:8501>

External URL: <http://35.239.92.75:8501>

```

npx: installed 22 in 3.183s
your url is: https://nice-deer-wait.local.lt
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:318: UserWarning: Trying to unpickle estimator OneHotEncoder from version 1
https://scikit-learn.org/stable/model\_persistence.html#security-maintainability-limitations
warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:318: UserWarning: Trying to unpickle estimator FunctionTransformer from vers
https://scikit-learn.org/stable/model\_persistence.html#security-maintainability-limitations
warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:318: UserWarning: Trying to unpickle estimator ColumnTransformer from versio
https://scikit-learn.org/stable/model\_persistence.html#security-maintainability-limitations
warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:318: UserWarning: Trying to unpickle estimator LogisticRegression from versi
https://scikit-learn.org/stable/model\_persistence.html#security-maintainability-limitations
warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:318: UserWarning: Trying to unpickle estimator Pipeline from version 1.3.0 v
https://scikit-learn.org/stable/model\_persistence.html#security-maintainability-limitations
warnings.warn(
2024-01-27 17:32:49.157 Uncaught app exception
Traceback (most recent call last):
  File "/usr/local/lib/python3.10/dist-packages/streamlit/runtime/scriptrunner/script_runner.py", line 535, in _run_script
    exec(code, module.__dict__)
  File "/content/app.py", line 24, in <module>
    col1, col2 = st.beta_columns(2)
AttributeError: module 'streamlit' has no attribute 'beta_columns'
2024-01-27 17:34:30.668 Uncaught app exception
Traceback (most recent call last):
  File "/usr/local/lib/python3.10/dist-packages/streamlit/runtime/scriptrunner/script_runner.py", line 535, in _run_script
    exec(code, module.__dict__)
  File "/content/app.py", line 16, in <module>
    pipe = pickle.load(open('path/to/pipe.pkl', 'rb'))
FileNotFoundError: [Errno 2] No such file or directory: 'path/to/pipe.pkl'

```