Name: Jinghao Shen Batch code: LISUM25

Submission date: 9/29/2023

- 1. Use data from week 4
- 2. Built model as week 4
- 3. Use Flask to create the web app
- 4. Freeze requirements.txt
- 5. Create Procfile
- 6. Commit to GitHub
- 7. Deploy with Heroku

Data: Weather data from five different locations

```
1 \\ \\ a \\ itude, longitude, \\ datetime, \\ temp, \\ humidity, \\ precipprob, \\ wind \\ speed, \\ seal \\ evel \\ pressure, \\ cloud \\ cover, \\ visibility, \\ solar \\ radiation, \\ icondition \\ icondition \\ itude, \\ temp, \\ humidity, \\ precipprob, \\ wind \\ speed, \\ seal \\ evel \\ pressure, \\ cloud \\ cover, \\ visibility, \\ solar \\ radiation, \\ itude, \\ itude, \\ temp, \\ temp,
 35.684,139.809,2023-09-26,77.4,56.8,14.3,12.8,1015.5,64.9,15,220.4,partly-cloudy-day
35.684,139.809,2023-09-29,78.2,57.3,33.3,13,1012.4,84.9,15,110.8,partly-cloudy-day
35.684,139.889,2023-10-01,77.4,66.3,57.1,11.2,1007.6,89.5,14.8,134.3,nain

35.684,139.809,2023-10-02,67.9,62.7,42.9,14.1,1011.7,58.8,13.3,59.9,partly-cloudy-day

40.715,-74.007,2023-09-25,62.2,89,100,15,1018.4,100,2.8,7.9,rain

40.715,-74.007,2023-09-26,59.9,78.9,39,16.1,1027,83,8.1,32.1,partly-cloudy-day
40.715,-74.007,2023-09-27,59.8,67.9,13,11.4,1026.5,53.8,10.1,230.3,partly-cloudy-day 40.715,-74.007,2023-09-28,61.6,73.6,19,12.1,1024.6,56.6,14.6,198,partly-cloudy-day
 40.715,-74.007,2023-09-29,62.7,76.3,26,11.9,1024.6,69.3,15,222.6,partly-cloudy-day
 40.715,-74.007,2023-09-30,63.7,72,26,12.8,1026.1,42,15,227.6,partly-cloudy-day
40.715, -74.007, 2023-10-01,64.6,69.1,15,11.4,1023.3,31.8,15,222.4,partly-cloudy-day 40.715, -74.007, 2023-10-02,67.8,67.1,14,10.3,1016.5,31.4,15,198.7,partly-cloudy-day
 51.506,-0.127,2023-09-25,64.6,71,0,12.7,1018.5,84.6,11.3,168,partly-cloudy-day
51.506,-0.127,2023-09-27,60.1,80.8,52.4,14.1,1013.7,91.2,15,64.4,rain 51.506,-0.127,2023-09-28,59.1,72.4,66.7,13.2,1014.4,86.3,15,143.1,rain 51.506,-0.127,2023-09-29,61.4,73.1,66.7,9.4,1019.4,77.3,15,166,rain
51.506,-0.127,2023-10-01,66.3,65.9,19,13,1015,78,15,131,partly-cloudy-day
51.506,-0.127,2023-10-02,61.3,62.1,19,12.8,1018.4,35.8,15,148.1,partly-cloudy-day
39.907,116.388,2023-09-25,64.8,72.5,0,6.7,1015.3,60.6,9.5,128,partly-cloudy-day
39.907,116.388,2023-09-26,71,64,0,7.2.,1013.5,00.0,91.3,120,partly-cloudy-day 39.907,116.388,2023-09-27,75.3,41.2,0,11.6,181.2,8,52,15,184.8,partly-cloudy-day 39.907,116.388,2023-09-28,72.6,28.2,23.8,9.4,1015.5,56.9,15,204.5,partly-cloudy-day 39.907,116.388,2023-09-29,72.8,36.6,57.1,17,1013,33.3,14.9,222,rain
39.907,116.388,2023-10-01,71.6,31.3,4.8,8.7,1017.8,17.4,15,214.3,clear-day 39.907,116.388,2023-10-02,67.8,51.1,19,16.8,1016.7,87.6,15,121.6,partly-cloudy-day
37.777,-122.42,2023-09-25,62.6,82.5,48,13.9,1018.2,58.3,10.1,206,rain 37.777,-122.42,2023-09-26,63.8,84.6,48,17.2,1021.3,38.4,10.1,220,rain 37.777,-122.42,2023-09-27,62.6,80.7,1,19.5,1016,11.4,10.3,226.3,clear-day
 37.777,-122.42,2023-09-28,62,75.7,0,15.4,1011.3,9.3,15,227.8,clear-day
 37.777,-122.42,2023-09-29,61.8,73.5,0,17.2,1007.3,17.8,15,205.2,clear-day
```

ID 0f149207-a4ff-49c4-a26f-531f1e98c028

Build log:

```
Activity Feed > Build Log
            DUMNITURATING panuas-2.1.i-cpsii-cpsii-manyiinux_2_1/_xoo_0+.manyiinux
Collecting python-dateutil==2.8.2 (from -r requirements.txt (line 13))
            Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 KB)
Collecting pytz==2023.3.post1 (from -r requirements.txt (line 14))
Obtaining dependency information for pytz==2023.3.post1 from
  https://files.pythonhosted.org/packages/32/44/aaf7eff5deb402fd9a24a1449a8119f00d74ae9c2efa79f8ef9994261fc2/pytz-2023.3.post1-py2.py3-none-any.whl.metadata
               Downloading pytz-2023.3.post1-py2.py3-none-any.whl.metadata (22 kB)
            Collecting scikit-learn==1.3.1 (from -r requirements.txt (line 15))
Obtaining dependency information for scikit-learn==1.3.1 from
 https://files.pythonhosted.org/packages/8f/87/5969092159207f583481ad80a03f09e2d4af1ebd197f4530ca4e906c947e/scikit\_learn-1.3.1-cp311-cp311-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl.metadata
            Downloading scikit_learn-1.3.1-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (11 k8) Collecting scipy==1.11.3 (from -r requirements.txt (line 16))
 Obtaining dependency information for scipy==1.11.3 from https://files.pythonhosted.org/packages/ef/1b/7538792254aec6850657d5b940fd05fe60582af829ffe40d6c054f065f34/scipy-1.11.3-cp311-cp311-
  manylinux 2 17 x86 64.manylinux2014 x86 64.whl.metadata
                Downloading scipy-1.11.3-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (60 kB)
            Collecting six=1.16.0 (from -r requirements.txt (line 17)) Downloading six-1.16.0-py2.py3-none-any.whl (11 kB) Collecting threadpoolctl==3.2.0 (from -r requirements.txt (line 18))
 Obtaining dependency information for threadpoolctl==3.2.0 from https://files.pythonhosted.org/packages/81/12/fd4dea011af9d69e1cad05c75f3f7202cdcbeac9b712eea58ca779a72865/threadpoolctl-3.2.0-py3-none-any.whl.metadata
            Downloading threadpoolctl-3.2.0-py3-none-any.whl.metadata (10.0 kB) Collecting tzdata==2023.3 (from -r requirements.txt (line 19))
            Downloading tzdata-2023.3-py2.py3-none-any.wh1 (341 kB)
Collecting Werkzeug==2.3.7 (from -r requirements.txt (line 20))
Obtaining dependency information for Werkzeug==2.3.7 from
  https://files.pythonhosted.org/packages/9b/59/a7c32e3d8d0e546a206e0552a2c04444544f15c1da4a01df8938d20c6ffc/werkzeug-2.3.7-py3-none-any.whl.metadata
               Downloading werkzeug-2.3.7-py3-none-any.whl.metadata (4.1 kB)
            Downloading click-8.1.7-py3-none-any.whl (97 kB)
            Downloading flask-2.3.3-py3-none-any.whl (96 kB)
            Downloading gunicorn-21.2.0-py3-none-any.wh1 (80 kB)
Downloading joblib-1.3.2-py3-none-any.wh1 (302 kB)
            Downloading JOUILD-13.2-Dy3-nonne-eny.wnx (302 kg)
Downloading MarkupSafe-2.13-cp311-cp311-manylinux_2.17_x86_64.manylinux2014_x86_64.wh1 (28 kB)
Downloading nummy-1.26.0-cp311-cp311-manylinux_2.17_x86_64.manylinux2014_x86_64.wh1 (18.2 MB)
Downloading pandas-2.1.1-cp311-cp311-manylinux_2.17_x86_64.manylinux2014_x86_64.wh1 (12.2 MB)
Downloading pytz-2023.3.post1-py2.py3-nonne-any.wh1 (502 kB)
            Downloading scikit_learn-1.3.1-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (10.9 MB) Downloading scipy-1.11.3-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (36.4 MB)
            Downloading threadpoolctl-3.2.0-py3-none-any.whl (15 kB)
             Downloading werkzeug-2.3.7-py3-none-any.whl (242 kB)
 Installing collected packages: pytz, tidata, threadpoolctl, six, packaging, numpy, MarkupSafe, joblib, itsdangerous, colorama, click, blinker, Werkzeug, scipy, python-dateutil, Jinja2, gunicorn, scikit-learn, pandas, Flask

Successfully installed Flask-2.3.3 Jinja2-3.1.2 MarkupSafe-2.1.3 Werkzeug-2.3.7 blinker-1.6.2 click-8.1.7 colorama-0.4.6 gunicorn-21.2.0 itsdangerous-2.1.2 joblib-1.3.2
  numpy-1.26.0 packaging-23.1 pandas-2.1.1 python-dateutil-2.8.2 pytz-2023.3.postl scikit-learn-1.3.1 scipy-1.11.3 six-1.16.0 threadpoolctl-3.2.0 tzdata-2023.3
   ----> Discovering process types
            Procfile declares types -> web
   ----> Compressing...
            Done: 124.4M
    ---> Launching..
            Released v7
            https://heroku-demo-app-1-41df3a1e10c2.herokuapp.com/ deployed to Heroku
```

Build finished

Web app:

https://heroku-demo-app-1-41df3a1e10c2.herokuapp.com/

