

# Model Deployment- Plant Pathology

- Reference- <https://www.analyticsvidhya.com/blog/2020/08/image-augmentation-on-the-fly-using-keras-imagedatagenerator/>
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- Reference- <https://stackoverflow.com/questions/11264521/date-ticks-and-rotation-in-matplotlib>
- Reference- <https://bsapubs.onlinelibrary.wiley.com/doi/10.1002/aps3.11390>
- Reference- <https://www.kaggle.com/competitions/plant-pathology-2020-fgvc7/code>
- Reference- <https://www.kaggle.com/code/rajesh2609/apple-foliar-diseases-extensive-analysis>
- Reference- <https://www.kaggle.com/code/dilarazdemir/plant-pathology-eda-deep-learning-models>
- Reference- <https://www.kaggle.com/code/kaledhoshme/classification-foliar-diseases-in-apple-trees>
- Reference- <https://www.kaggle.com/code/nitinchoudhary012/apple-disease-classification>
- Reference- <https://www.kaggle.com/code/geochatz/plant-pathology-classification-with-tensorflow>
- Reference- <https://medium.com/@dhirajkumarsahu.999/plant-disease-detection-926ca83b4aa8>
- Reference- [https://github.com/Elvior01/Plant-Pathology-2020---FGVC7-Identify-the-category-of-foliar-diseases-in-apple-trees/blob/master/Plant%20Pathology%202020%20\\_Image\\_Classifier.ipynb](https://github.com/Elvior01/Plant-Pathology-2020---FGVC7-Identify-the-category-of-foliar-diseases-in-apple-trees/blob/master/Plant%20Pathology%202020%20_Image_Classifier.ipynb)
- Reference- <https://github.com/Julen96/Plant-Pathology-2020-FGVC7/tree/master/Jupyter%20Notebooks>
- Reference- <https://github.com/ResByte/plant-pathology-2020-fgvc7-pytorch>
- Reference- [https://github.com/newbieeashish/Plant-Pathology-2020---FGVC7/blob/master/Plant\\_pathology.ipynb](https://github.com/newbieeashish/Plant-Pathology-2020---FGVC7/blob/master/Plant_pathology.ipynb)
- Reference- <https://graphviz.gitlab.io/download/>
- Reference- [https://keras.io/api/utis/model\\_plotting\\_utils/](https://keras.io/api/utis/model_plotting_utils/)
- Reference- <https://pypl.org/project/pydot/>
- Reference- <https://stackoverflow.com/questions/47113472/tensorboard-error-no-dashboards-are-active-for-current-data-set>
- Reference- <https://stackoverflow.com/questions/6444548/how-do-i-get-the-picture-size-with-pil>
- Reference- <https://stackoverflow.com/questions/54595551/what-is-this-error-attributeerror-numpy-ndarray-object-has-no-attribute-loc>
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- Reference- <https://www.kaggle.com/competitions/plant-pathology-2020-fgvc7/submissions>
- Reference- <https://www.kaggle.com/code/phuc16102001/plant-pathology-2020-vgg-style>
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- Reference- <https://towardsdatascience.com/end-to-end-deep-learning-project-part-1-930af1e1e191>
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- Reference- <https://www.geeksforgeeks.org/vgg-16-cnn-model/>
- Reference- <https://medium.com/@mygretelearning/everything-you-need-to-know-about-vgg16-7315defb5918#:~:text=VGG16%20is%20object%20detection%20and,to%20use%20with%20transfer%20learning.>
- Reference- <https://www.analyticsvidhya.com/blog/2020/08/image-augmentation-on-the-fly-using-keras-imagedatagenerator/>
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- Reference- <https://www.kaggle.com/code/ndhpro/plant-pathology-2020-efficientnet>
- Reference- [https://github.com/DhirajKumarSahu/Plant\\_Pathology\\_Challenge](https://github.com/DhirajKumarSahu/Plant_Pathology_Challenge)
- Reference- <https://www.kaggle.com/competitions/plant-pathology-2020-fgvc7/submissions#>
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- Reference- [https://programtalk.com/python-more-examples/plotly.figure\\_factory.create\\_distplot/](https://programtalk.com/python-more-examples/plotly.figure_factory.create_distplot/)
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- Reference- <https://www.geeksforgeeks.org/how-to-get-first-row-of-pandas-dataframe/>
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- Reference- <https://www.freecodecamp.org/news/deploy-ml-model-to-production-as-api/>
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- Reference- <https://devcenter.heroku.com/articles/git>

```
In [1]: from google.colab import drive
drive.mount('/content/drive/')

Mounted at /content/drive/

In [2]: !pip -q install streamlit==1.13.0
!pip -q install pyngrok
# !pip -q install protobuf
# !pip install fastapi uvicorn

| | | | | 9.2 MB 14.7 MB/s
| | | | | 78 KB 8.1 MB/s
| | | | | 164 KB 95.0 MB/s
| | | | | 4.7 MB 53.3 MB/s
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| | | | | 51 KB 7.4 MB/s
Building wheel for validators (setup.py) ... done
| | | | | 761 KB 14.3 MB/s
Building wheel for pyngrok (setup.py) ... done
```

```
In [3]: import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import cv2
import plotly.express as px
import plotly.graph_objects as go
import tensorflow
import keras
from keras.utils import np_utils
from keras.models import Model, Sequential
from tensorflow.keras.preprocessing import image
from keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.callbacks import ModelCheckpoint, EarlyStopping
from keras.layers import GlobalAveragePooling2D, Dropout, Dense, Activation
from keras import optimizers
from PIL import Image
from tqdm import tqdm
import plotly.figure_factory as ff
from plotly.subplots import make_subplots
from keras.applications.densenet import DenseNet121
tqdm.pandas()
import datetime as dt
from pyngrok import ngrok
import streamlit as st
```

```
In [4]: %writefile app.py

import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import cv2
import plotly.express as px
import plotly.graph_objects as go
import tensorflow
import keras
from keras.utils import np_utils
from keras.models import Model, Sequential
from keras.layers import GlobalAveragePooling2D, Dropout, Dense, Activation
from tensorflow.keras.callbacks import ModelCheckpoint, EarlyStopping
from keras.preprocessing.image import ImageDataGenerator
from keras import optimizers
from PIL import Image
from tensorflow.keras.preprocessing import image
from tqdm import tqdm
import plotly.figure_factory as ff
from plotly.subplots import make_subplots
from keras.applications.densenet import DenseNet121
from sklearn.metrics import roc_auc_score
tqdm.pandas()
from pyngrok import ngrok
import streamlit as st
import datetime as dt

file_upload = st.file_uploader("Select a file")
if file_upload is not None:
    st.subheader('Plant Disease Prediction:')
    query_1 = pd.read_csv(file_upload)

    batches = 16
    datagen = ImageDataGenerator(
        rotation_range=10, # rotating the image
        width_shift_range=0.2, # horizontally shifting the image
        height_shift_range=0.2, # vertically shifting the image
        zoom_range=0.2, # zooming the image
        horizontal_flip=True, # horizontally flipping the image
        brightness_range=[0.2, 1.2]) # brightening the image

    test_datagen = datagen.flow_from_dataframe(dataframe= query_1,
        directory="/content/drive/MyDrive/Self_Case_Study_2/plant-pathology-2020-fgvc7/images/",
        x_col="image_id",
        y_col=None,
        class_mode=None,
        shuffle=False,
        batch_size=batches,
        target_size=(100,100)
    )

    def roc_auc(y_true, y_prediction):
        try:
            roc_auc_score(y_true, y_prediction)
        except ValueError:
            return 0.5
        return roc_auc_score(y_true, y_prediction)

    def auc_score(y_true, y_prediction):
        score_auc = tensorflow.py_function(roc_auc,[y_true, y_prediction],['float32'],names='sklearnAUC')
        return score_auc

    pre_dense_model = DenseNet121(include_top=False, weights='imagenet', input_shape=(100,100,3))
    dense_model = tensorflow.keras.Sequential([pre_dense_model,
        tensorflow.keras.layers.GlobalAveragePooling2D(),
        tensorflow.keras.layers.Dropout(0.3),
        tensorflow.keras.layers.Dense(4, activation='softmax')])

    dense_model.load_weights("/content/drive/My Drive/Self_Case_Study_2/plant-pathology-2020-fgvc7/dense_model.hdf5")

    prediction = dense_model.predict(test_datagen, verbose=1)

    file_id = query_1.image_id
    for i in file_id:
        image_read = cv2.imread("/content/drive/MyDrive/Self_Case_Study_2/plant-pathology-2020-fgvc7/images/"+i)
        resize_image = cv2.resize(image_read, (256, 256))

        filename = "/content/drive/MyDrive/Self_Case_Study_2/plant-pathology-2020-fgvc7/sample_submission.csv"
        submit = pd.read_csv(filename)
        file = submit.iloc[i]
        file.loc[:, 'healthy'] = prediction

        st.subheader('Predicted leaf disease with probabilities:')
        st.write(file)
        st.image(resize_image)

Writing app.py
```

```
In [5]: !ngrok authtoken 2ISBPeRiYchTz0UEAudi8pMUi_5H61hPvbu6jD5dHhNB1p

Authtoken saved to configuration file: /root/.ngrok2/ngrok.yml
```

```
In [ ]: public_url = ngrok.connect(port='80')
print(public_url)

!streamlit run --server.port 80 app.py --dev/null

INFO:pyngrok.ngrok:Opening tunnel named: http-80-52b389f6-43cb-4d64-a248-960d9d1c11aa
2022-12-22 09:59:35.611 INFO pyngrok.ngrok: Opening tunnel named: http-80-52b389f6-43cb-4d64-a248-960d9d1c11aa
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:35+0000 lvl=info msg="no configuration paths supplied"
2022-12-22 09:59:35.653 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:35+0000 lvl=info msg="no configuration paths supplied"
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:35+0000 lvl=info msg="using configuration at default config path" path=/root/.ngrok2/ngrok.yml
2022-12-22 09:59:35.664 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:35+0000 lvl=info msg="using configuration at default config path" path=/root/.ngrok2/ngrok.yml
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg=start pg=/api/tunnels id=d1be3f051e8e3047
2022-12-22 09:59:35.667 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg="open config file" path=/root/.ngrok2/ngrok.yml err=nil
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:35+0000 lvl=info msg="starting web service" obj=web addr=127.0.0.1:4040
2022-12-22 09:59:35.670 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:35+0000 lvl=info msg="starting web service" obj=web addr=127.0.0.1:4040
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:35+0000 lvl=info msg="tunnel session started" obj=tunnels.session
2022-12-22 09:59:35.992 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:35+0000 lvl=info msg="tunnel session started" obj=tunnels.session
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:35+0000 lvl=info msg="client session established" obj=csess id=bcdde7ca1d8
2022-12-22 09:59:36.001 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:35+0000 lvl=info msg="client session established" obj=csess id=bcdde7ca1d8
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg=start pg=/api/tunnels id=d1be3f051e8e3047
2022-12-22 09:59:36.033 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg=start pg=/api/tunnels id=d1be3f051e8e3047 status=200 dur=371.949µs
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg=end pg=/api/tunnels id=d1be3f051e8e3047 status=200 dur=371.949µs
2022-12-22 09:59:36.048 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg=end pg=/api/tunnels id=d1be3f051e8e3047 status=200 dur=371.949µs
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg=start pg=/api/tunnels id=9d7c04317ec96fac
2022-12-22 09:59:36.057 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg=start pg=/api/tunnels id=9d7c04317ec96fac
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg=end pg=/api/tunnels id=9d7c04317ec96fac status=200 dur=161.86µs
2022-12-22 09:59:36.074 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg=end pg=/api/tunnels id=9d7c04317ec96fac status=200 dur=161.86µs
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg=start pg=/api/tunnels id=fac0627c1adfea37
2022-12-22 09:59:36.086 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg=start pg=/api/tunnels id=fac0627c1adfea37
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg="started tunnel" obj=tunnels name="http-80-52b389f6-43cb-4d64-a248-960d9d1c11aa (http)" addr=http://localhost:80 url=http://1504-34-91-78-247.ngrok.io
2022-12-22 09:59:36.253 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg="started tunnel" obj=tunnels name="http-80-52b389f6-43cb-4d64-a248-960d9d1c11aa (http)" addr=http://localhost:80 url=http://1504-34-91-78-247.ngrok.io
2022-12-22 09:59:36.289 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg=end pg=/api/tunnels id=fac0627c1adfea37 status=201 dur=218.716463ms
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg=start pg=/api/tunnels/http-80-52b389f6-43cb-4d64-a248-960d9d1c11aa (http) id=5dbe11f87d57f84
2022-12-22 09:59:36.295 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg=start pg=/api/tunnels/http-80-52b389f6-43cb-4d64-a248-960d9d1c11aa (http) id=5dbe11f87d57f84
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg=end pg=/api/tunnels/http-80-52b389f6-43cb-4d64-a248-960d9d1c11aa (http) id=5dbe11f87d57f84 status=200 dur=197.203µs
2022-12-22 09:59:36.394 INFO pyngrok.process.ngrok: t=2022-12-22T09:59:36+0000 lvl=info msg=end pg=/api/tunnels/http-80-52b389f6-43cb-4d64-a248-960d9d1c11aa (http) id=5dbe11f87d57f84 status=200 dur=197.203µs
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:36+0000 lvl=info msg="failed to open private leg" id=59a27526a830 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:37.065 INFO numexpr.utils: NumExpr defaulting to 2 threads.
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:42+0000 lvl=warn msg="failed to open private leg" id=59a27526a830 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:42.827 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:42+0000 lvl=warn msg="failed to open private leg" id=59a27526a830 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:43+0000 lvl=warn msg="failed to open private leg" id=6b7b979b228e privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:43.305 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:43+0000 lvl=warn msg="failed to open private leg" id=6b7b979b228e privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:45+0000 lvl=warn msg="failed to open private leg" id=f08dbc2c6d7d privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:45.443 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:45+0000 lvl=warn msg="failed to open private leg" id=f08dbc2c6d7d privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:45+0000 lvl=warn msg="failed to open private leg" id=74b6ef70d902 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:45.915 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:45+0000 lvl=warn msg="failed to open private leg" id=74b6ef70d902 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:47+0000 lvl=warn msg="failed to open private leg" id=f97ef885242c privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:47.427 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:47+0000 lvl=warn msg="failed to open private leg" id=f97ef885242c privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:48+0000 lvl=warn msg="failed to open private leg" id=bfd5f6afb208 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:48.192 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:48+0000 lvl=warn msg="failed to open private leg" id=bfd5f6afb208 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:48+0000 lvl=warn msg="failed to open private leg" id=8ad22c3b7627 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:48.661 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:48+0000 lvl=warn msg="failed to open private leg" id=8ad22c3b7627 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:52+0000 lvl=warn msg="failed to open private leg" id=7b05ac2e4f5c privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:52.476 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:52+0000 lvl=warn msg="failed to open private leg" id=7b05ac2e4f5c privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:52+0000 lvl=warn msg="failed to open private leg" id=4172eeced479 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:52.953 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:52+0000 lvl=warn msg="failed to open private leg" id=4172eeced479 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:55+0000 lvl=warn msg="failed to open private leg" id=851e177f5e0d privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:55.332 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:55+0000 lvl=warn msg="failed to open private leg" id=851e177f5e0d privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:55+0000 lvl=warn msg="failed to open private leg" id=3bf969b88083 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:55.836 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:55+0000 lvl=warn msg="failed to open private leg" id=3bf969b88083 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
WARNING:pyngrok.process.ngrok:t=2022-12-22T09:59:56+0000 lvl=warn msg="failed to open private leg" id=f1bd9331d3d3 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
2022-12-22 09:59:56.565 WARNING pyngrok.process.ngrok: t=2022-12-22T09:59:56+0000 lvl=warn msg="failed to open private leg" id=f1bd9331d3d3 privaddr=localhost:80 err="dial tcp 127.0.0.1:80: connect: connection refused"
INFO:pyngrok.process.ngrok:t=2022-12-22T09:59:56+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:02.972 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:02+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
INFO:pyngrok.process.ngrok:t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=8f7589be1981 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37656
7:4292:efe6:4cb2:f4a5]:37656
INFO:pyngrok.process.ngrok:t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=9d5f0a28add1 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37704
7:4292:efe6:4cb2:f4a5]:37704
2022-12-22 10:00:03.430 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=9d5f0a28add1 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37704
7:4292:efe6:4cb2:f4a5]:37704
2022-12-22 10:00:03.680 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=9d5f0a28add1 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.690 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=81c8e74297c 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37678
7:4292:efe6:4cb2:f4a5]:37678
2022-12-22 10:00:03.713 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.733 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.743 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.753 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.763 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.773 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.783 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.793 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.803 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:dbd7:4292:efe6:4cb2:f4a5]:37682
7:4292:efe6:4cb2:f4a5]:37682
2022-12-22 10:00:03.813 INFO pyngrok.process.ngrok: t=2022-12-22T10:00:03+0000 lvl=info msg="join connections" obj=join id=934d389d7cae 1=127.0.0.1:80 r=[2406:7400:61:db
```