```
!pip install -q pyngrok
!pip install -q streamlit
!pip install -q streamlit_ace
                                              745 kB 5.0 MB/s
Гэ
       Building wheel for pyngrok (setup.py)
                                              ... done
                                              10.1 MB 5.2 MB/s
                                              164 kB 58.1 MB/s
                                              111 kB 57.6 MB/s
                                              4.3 MB 41.1 MB/s
                                              76 kB 5.0 MB/s
                                              181 kB 71.8 MB/s
                                              63 kB 1.5 MB/s
                                              131 kB 59.0 MB/s
                                              428 kB 49.9 MB/s
                                              793 kB 59.6 MB/s
                                              130 kB 68.0 MB/s
                                             381 kB 62.7 MB/s
       Building wheel for blinker (setup.py) ... done
     ERROR: pip's dependency resolver does not currently take into account all the packages 1
     jupyter-console 5.2.0 requires prompt-toolkit<2.0.0,>=1.0.0, but you have prompt-toolkit
     google-colab 1.0.0 requires ipykernel~=4.10, but you have ipykernel 6.13.0 which is inco
     google-colab 1.0.0 requires ipython~=5.5.0, but you have ipython 7.32.0 which is incompa
     google-colab 1.0.0 requires tornado~=5.1.0; python version >= "3.0", but you have tornac
                                       3.6 MB 5.2 MB/s
!pip install pyngrok==4.1.1.
     Collecting pyngrok==4.1.1.
       Downloading pyngrok-4.1.1.tar.gz (18 kB)
     Requirement already satisfied: future in /usr/local/lib/python3.7/dist-packages (from py
     Requirement already satisfied: PyYAML in /usr/local/lib/python3.7/dist-packages (from py
     Building wheels for collected packages: pyngrok
       Building wheel for pyngrok (setup.py) ... done
       Created wheel for pyngrok: filename=pyngrok-4.1.1-py3-none-any.whl size=15983 sha256=1
       Stored in directory: /root/.cache/pip/wheels/b1/d9/12/045a042fee3127dc40ba6f5df2798aa2
     Successfully built pyngrok
     Installing collected packages: pyngrok
       Attempting uninstall: pyngrok
         Found existing installation: pyngrok 5.1.0
         Uninstalling pyngrok-5.1.0:
           Successfully uninstalled pyngrok-5.1.0
     Successfully installed pyngrok-4.1.1
```

!pgrep streamlit

%%writefile app.py import numpy as np import pandas as pd import pickle import streamlit as st

```
def severity_pred(input_data):
   #changing input data to numpy array
   input_data_array=np.array(input_data)
   #reshape the array as we are predicting for one instance
   input_data_reshaped=input_data_array.reshape(1,-1)
   prediction=loaded_model.predict(input_data_reshaped)
   print(prediction)
   if(prediction==1):
      return "Fatal"
   elif(prediction==2):
      return "Severe Accident"
      return "Slight Accident"
st.write("Accident Severity Prediction")
#df=pd.read_csv("/content/Accidents_data.csv")
#st.dataframe(df)
loaded_model=pickle.load(open('/content/accident_severity_model.pkl','rb'))
#Getting data from the user to predict
Longitude=st.text_input("Enter the longitude:")
Latitude=st.text_input("Enter the latitude:")
Number_of_Vehicles=st.text_input("Enter the no.of vehicles:")
Number_of_Casualties=st.text_input("No.of Casualities:")
Road_Type=st.text_input("Road type:")
Speed_limit=st.text_input("Speed Limit:")
Weather_Conditions=st.text_input("Weather Conditions:")
Road_Surface_Conditions=st.text_input("Road Surface Condition")
Skidding_and_Overturning=st.text_input("Skidding and overturning:")
#code for prediction
pred=''
#creating a button
if st.button("Predict"):
   pred=severity_pred([Longitude,Latitude,Number_of_Vehicles,Number_of_Casualties,Road_Type,Speed_limit,Weather_Conditions,Road_Surface_Conditio
st.success(pred)
      Writing app.py
!streamlit run /content/app.py & npx localtunnel --port 8501
      2022-04-11 09:51:39.147 INFO
                                                  numexpr.utils: NumExpr defaulting to 2 threads.
      npx: installed 22 in 2.992s
         You can now view your Streamlit app in your browser.
         Network URL: http://172.28.0.2:8501
         External URL: <a href="http://35.237.66.193:8501">http://35.237.66.193:8501</a>
      your url is: <a href="https://tiny-panther-88.loca.lt">https://tiny-panther-88.loca.lt</a>
      /usr/local/lib/python3.7/dist-packages/sklearn/base.py:451: UserWarning: X does not have
         "X does not have valid feature names, but"
      /usr/local/lib/python3.7/dist-packages/sklearn/base.py:566: FutureWarning: Arrays of byt
         X = check array(X, **check_params)
      /usr/local/lib/python3.7/dist-packages/sklearn/base.py:451: UserWarning: X does not have
         "X does not have valid feature names, but"
      /usr/local/lib/python3.7/dist-packages/sklearn/base.py:451: UserWarning: X does not have
         "X does not have valid feature names, but"
       [3.]
```

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