


```

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_resaped=input_data_array.reshape(1,-1)
    prediction=loaded_model.predict(input_data_resaped)
    print(prediction)
    if(prediction==1):
        return "Fatal"
    elif(prediction==2):
        return "Severe Accident"
    else:
        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 Casualties:")
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: <http://35.237.66.193:8501>

your url is: <https://tiny-panther-88.loca.lt>

```

/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.]

```

