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Batch code: LISUM02

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Submitted to: Data Glacier

Snapshot of deployment:

```python
from flask import Flask
app = Flask(  name  )


@app.route('/')
def index():
    return flask.render_template('index.html')


@app.route('/predict', methods=['POST'])
def predict():
    to_predict_list = request.form.to_dict()
    review_text = pre_processing(to_predict_list['review_text'])
    prob = clf.predict_proba(count_vect.transform([review_text]))
    if prob[0][0]>=0.5:
        prediction = "Positive"
    else:
        prediction = "Negative"


return flask.render_template('predict.html', prediction = prediction,
prob =np.round(prob[0][0],3)*100)
```

```html
<form action="/predict" method="POST" target="_blank">
 <textarea name="review_text" placeholder="Enter your question
here..." rows="10" cols="15"></textarea>
    <input type="submit" value="Submit">
  </form>
```

```html
{% if prediction == "Negative" %}      ·

    <h1> THIS IS NOT A GENUINE QUESTION   </h1>
  <img
src="https://i.pinimg.com/564x/b0/41/75/b04175fd1ffbefdc02d90136c262a
6e3.jpg" width=250>
    <progress value= {{prob}} max="100">
```

```python
def pre_processing(text):
    lemmatizer = WordNetLemmatizer()
    text = text.lower()
    text = re.sub('[0-9]+','num',text)
    word_list = nltk.word_tokenize(text)
    word_list =  [lemmatizer.lemmatize(item) for item in word_list]
    return ' '.join(word_list)
```

```
\Desktop\ML_Model_deployment> python app.py

* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with stat
* Debugger is active!
* Debugger PIN: 845-989-293
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```


INSINCERE QUESTIONS CLASSIFICATION

Enter your question here...

Submit

INSINCERE QUESTIONS CLASSIFICATION

Who is the president of India?

Submit

← → C ⊙ 127.0.0.1:5000/predict ☆ 🦊 ⋮

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THIS IS A GENUINE QUESTION