

[illegible]


```
Model: 'Model_6'
Layer (type) Output Shape Param #
-----
input_7 (InputLayer) [(None, 500)] 0
embedding_6 (Embedding) (None, 500, 32) 315104
bidirectional_1 (Bidirectional) (None, 100, 100) 33200
dense_21 (Dense) (None, 1) 101
activation_10n_1 (Activation) (None, 1) 0

Total params: 349,405
Trainable params: 349,405
Non-trainable params: 0

Epoch 1/10
313/313 [=====] - 209s 644ms/step - loss: 0.6599 - accuracy: 0.5953 - val_loss: 0.5907
- val accuracy: 0.6678
Epoch 2/10
313/313 [=====] - 209s 639ms/step - loss: 0.5436 - accuracy: 0.7307 - val_loss: 0.5423
- val accuracy: 0.7234
Epoch 3/10
313/313 [=====] - 175s 559ms/step - loss: 0.4908 - accuracy: 0.7692 - val_loss: 0.4680
- val accuracy: 0.7746
Epoch 4/10
313/313 [=====] - 245s 783ms/step - loss: 0.4417 - accuracy: 0.8043 - val_loss: 0.5005
- val accuracy: 0.7938
Epoch 5/10
313/313 [=====] - 192s 612ms/step - loss: 0.4058 - accuracy: 0.8235 - val_loss: 0.4843
- val accuracy: 0.7862
Epoch 6/10
313/313 [=====] - 209s 666ms/step - loss: 0.3969 - accuracy: 0.8285 - val_loss: 0.4484
- val accuracy: 0.7886
Epoch 7/10
313/313 [=====] - 870s 3s/step - loss: 0.4000 - accuracy: 0.8244 - val_loss: 0.4490
- val accuracy: 0.7864
Epoch 8/10
313/313 [=====] - 160s 511ms/step - loss: 0.3827 - accuracy: 0.8355 - val_loss: 0.4487
- val accuracy: 0.8006
Epoch 9/10
313/313 [=====] - 173s 554ms/step - loss: 0.3745 - accuracy: 0.8386 - val_loss: 0.4618
- val accuracy: 0.8006
Evaluate model on test data
20/20 [=====] - 9s 460ms/step - loss: 0.4618 - accuracy: 0.7892
test loss, test acc: [0.46182258773694, 0.793200079154868]
Generate a prediction
157/157 [=====] - 9s 49ms/step
(0.13679899)
(0.70808494)
(0.02171615)
(0.0340794)
(0.01222912)
(0.53398693)
(10.)
(1.)
(0.)
...
(0.)
(0.)
(1.)
(5000, 1)
(11820, 479)
[ 575 20261]

In [36]:
```

```
#####
## CNN
#####
input_data = tensorflow.keras.layers.Input(shape=(500))

data = tensorflow.keras.layers.Embedding(input_dim=input_dim, output_dim=32)(input_data)
data = tensorflow.keras.layers.Conv1D(50, kernel_size=3, activation='relu')(data)
data = tensorflow.keras.layers.MaxPool1D(pool_size=2)(data)
data = tensorflow.keras.layers.Conv1D(40, kernel_size=3, activation='relu')(data)
data = tensorflow.keras.layers.MaxPool1D(pool_size=2)(data)
data = tensorflow.keras.layers.Conv1D(30, kernel_size=3, activation='relu')(data)
data = tensorflow.keras.layers.MaxPool1D(pool_size=2)(data)
data = tensorflow.keras.layers.Flatten()(data)
data = tensorflow.keras.layers.Dense(20)(data)
data = tensorflow.keras.layers.Dropout(0.5)(data)

data = tensorflow.keras.layers.Dense(1)(data)
output_data = tensorflow.keras.layers.Activation('sigmoid')(data)

model = tensorflow.keras.models.Model(inputs=input_data, outputs=output_data)
model.compile(loss='binary_crossentropy', optimizer='adam', metrics='accuracy')
model.summary()

model.fit(training_data, train_labels, epochs=10, batch_size=256, validation_data=(testing_data, test_labels))

eval_model(model)

Model: 'model_7'
Layer (type) Output Shape Param #
-----
input_8 (InputLayer) [(None, 500)] 0
embedding_7 (Embedding) (None, 500, 32) 315104
conv1d (Conv1D) (None, 498, 50) 4850
max_pooling1d (MaxPooling1D) (None, 249, 50) 0
conv1d_1 (Conv1D) (None, 247, 40) 6640
max_pooling1d_1 (MaxPooling1D) (None, 123, 40) 0
conv1d_2 (Conv1D) (None, 121, 30) 3630
max_pooling1d_2 (MaxPooling1D) (None, 60, 30) 0
conv1d_3 (Conv1D) (None, 58, 30) 2730
max_pooling1d_3 (MaxPooling1D) (None, 29, 30) 0
flatten_2 (Flatten) (None, 870) 0
dense_22 (Dense) (None, 20) 17420
dropout_6 (Dropout) (None, 20) 0
dense_23 (Dense) (None, 1) 21
activation_22 (Activation) (None, 1) 0

Total params: 349,795
Trainable params: 349,795
Non-trainable params: 0

Epoch 1/10
157/157 [=====] - 32s 199ms/step - loss: 0.6674 - accuracy: 0.5586 - val_loss: 0.5109
- val accuracy: 0.7524
Epoch 2/10
157/157 [=====] - 30s 192ms/step - loss: 0.4688 - accuracy: 0.7837 - val_loss: 0.4501
- val accuracy: 0.7960
Epoch 3/10
157/157 [=====] - 31s 198ms/step - loss: 0.4175 - accuracy: 0.8153 - val_loss: 0.4482
- val accuracy: 0.8049
Epoch 4/10
157/157 [=====] - 36s 232ms/step - loss: 0.4020 - accuracy: 0.8237 - val_loss: 0.4723
- val accuracy: 0.7826
Epoch 5/10
157/157 [=====] - 36s 228ms/step - loss: 0.3861 - accuracy: 0.8316 - val_loss: 0.4570
- val accuracy: 0.7946
Epoch 6/10
157/157 [=====] - 37s 233ms/step - loss: 0.3678 - accuracy: 0.8402 - val_loss: 0.4715
- val accuracy: 0.7976
Epoch 7/10
157/157 [=====] - 32s 202ms/step - loss: 0.3533 - accuracy: 0.8497 - val_loss: 0.4856
- val accuracy: 0.7912
Epoch 8/10
157/157 [=====] - 31s 194ms/step - loss: 0.3367 - accuracy: 0.8575 - val_loss: 0.5128
- val accuracy: 0.7796
Epoch 9/10
157/157 [=====] - 41s 264ms/step - loss: 0.3129 - accuracy: 0.8694 - val_loss: 0.4967
- val accuracy: 0.7868
Epoch 10/10
157/157 [=====] - 39s 250ms/step - loss: 0.2843 - accuracy: 0.8834 - val_loss: 0.5695
- val accuracy: 0.7766
Evaluate model on test data
20/20 [=====] - 1s 38ms/step - loss: 0.5695 - accuracy: 0.7766
test loss, test acc: [0.5694724917411804, 0.776600032424927]
Generate a prediction
157/157 [=====] - 1s 9ms/step
(1.3935972e-03)
(4.6985292e-01)
(1.7813570e-04)
(2.9911631e-04)
(1.2465759e-03)
(3.7010579e-03)
(10.)
(0.)
(0.)
...
(0.)
(0.)
(0.)
(5000, 1)
(12120, 7463)
[ 374 17423]

In [44]:
```

```
from wordcloud import WordCloud
from wordcloud import ImageColorGenerator
from wordcloud import STOPWORDS
import matplotlib.pyplot as plt
import pandas as pd

data = pd.read_csv("Train.csv")
print(data.head())

text label
0 I grew up (b. 1965) watching and loving the th... 0
1 When I put this movie in my DVD player, and sa... 0
2 Why do people who do not know what a particula... 0
3 Even though I have great interest in Biblical ... 0
4 I's die/have I die/have I die and nothing will e... 1

In [54]:
```

```
data_pos = data[data['label'] == 1]
data_neg = data[data['label'] == 0]

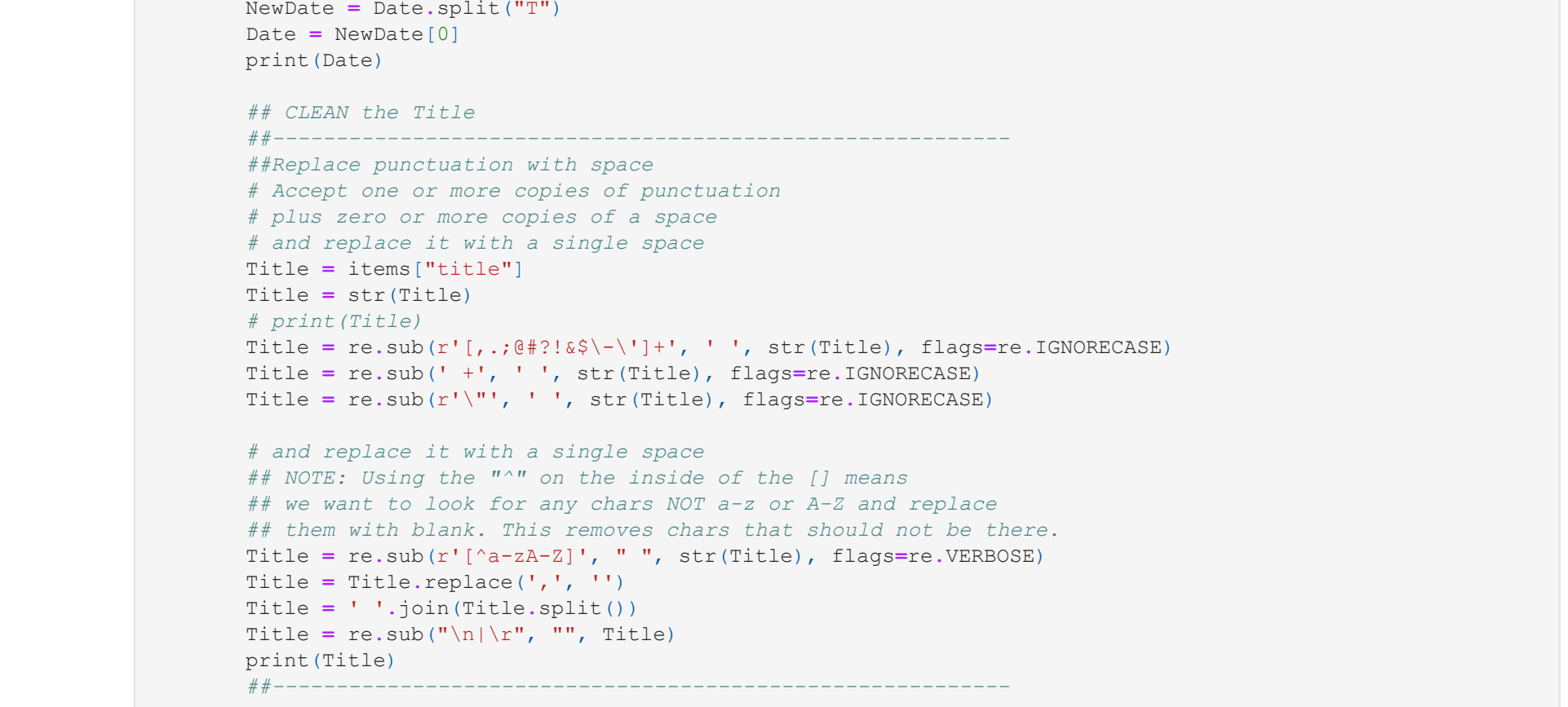
In [55]:
```



```
text = ""
stopwords = set(STOPWORDS)
wordcloud = WordCloud(stopwords=stopwords, background_color="white").generate(text)
plt.figure(figsize=(15,10))
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis('off')
plt.show()
```



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```


[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```

women world year years
0 0 0 0 0
1 0 0 0 0
2 0 0 0 0
3 0 0 0 0
4 0 0 0 0
.. ...
195 election
196 election
197 election
198 election
199 election

[200 rows x 50 columns]
[
  LABEL
0 abortion
1 abortion
2 abortion
3 abortion
4 abortion
.. ...
195 election
196 election
197 election
198 election
199 election

[200 rows x 1 columns], abortions ahead biden close constitution control country court \
0 0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 0 0 0 0
2 0 0 0 0 0 0 0 0 1
3 0 0 0 0 0 0 0 0 0
4 0 0 0 0 0 0 0 0 0
.. ...
195 0 0 1 0 0 0 0 0 0
196 0 0 0 0 0 0 0 0 0
197 0 0 0 0 0 0 0 0 0
198 0 0 1 0 0 0 0 0 0
199 0 0 0 0 0 0 0 0 0

democratic democrat ... trump tuesday vote voters voting weeks \
0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 0 1 0 0
2 0 0 1 0 0 0 0 0 1
3 0 0 1 0 0 0 0 0 0
4 0 0 0 0 0 0 0 0 0
.. ...
195 0 0 0 0 0 0 0 0 0
196 0 0 0 0 0 0 0 0 0
197 0 0 0 1 1 0 0 0 0
198 1 1 0 0 0 0 0 1 0
199 0 0 0 0 0 0 0 1 0

women world year years
0 0 0 0 0
1 0 0 0 0
2 0 0 0 0
3 0 0 0 0
4 0 0 0 0
.. ...
195 0 0 0 0
196 0 1 0 1
197 0 0 0 0
198 0 0 0 0
199 0 0 0 0

[200 rows x 50 columns]
LABEL abortions ahead biden close constitution control country \
0 abortion 0 0 0 0 0 0 0
1 abortion 0 0 0 1 0 0 0
2 abortion 0 0 0 0 0 0 0
3 abortion 0 0 0 0 0 0 0
4 abortion 0 0 0 0 0 0 0
.. ...
195 election 0 0 0 0 0 0 0
196 election 0 0 0 0 0 0 0
197 election 0 0 0 0 0 0 0
198 election 0 0 1 0 0 0 0
199 election 0 0 0 0 0 0 0

court democratic ... trump tuesday vote voters voting weeks \
0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 0 1 0 0
2 0 1 0 0 0 0 0 0 1
3 0 0 0 0 0 0 1 0 0
4 0 0 0 0 0 0 0 0 0
.. ...
195 0 0 0 0 0 0 0 0 0
196 0 0 0 0 0 0 0 0 0
197 0 0 0 0 0 0 0 0 0
198 0 1 0 0 0 0 1 0 0
199 0 0 0 0 0 0 0 1 0

women world year years
0 0 0 0 0
1 0 0 0 0
2 0 0 0 0
3 0 0 0 0
4 0 0 0 0
.. ...
195 0 0 0 0
196 0 1 0 1
197 0 0 0 0
198 0 0 0 0
199 0 0 0 0

[200 rows x 51 columns]
LABEL abortions ahead biden close constitution control country \
0 abortion 0 0 0 0 0 0 0
1 abortion 0 0 0 1 0 0 0
2 abortion 0 0 0 0 0 0 0
3 abortion 0 0 0 0 0 0 0
4 abortion 0 0 0 0 0 0 0
.. ...
95 abortion 0 0 0 0 0 0 0
96 abortion 0 0 0 0 0 1 0
97 abortion 0 0 0 0 0 1 0
98 abortion 0 0 0 0 0 0 0
99 abortion 0 0 0 0 0 0 0

court democratic ... trump tuesday vote voters voting weeks \
0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 0 1 0 0
2 1 0 0 0 0 0 0 1
3 0 0 0 0 0 0 1 0 0
4 0 0 0 0 0 0 0 0 0
.. ...
95 0 0 0 0 0 0 0 0 0
96 0 0 0 0 0 0 0 0 0
97 0 0 0 0 0 0 0 0 0
98 0 0 0 0 0 0 0 0 0
99 0 0 0 0 0 0 0 0 0

women world year years
0 0 0 0 0
1 0 0 0 0
2 0 0 0 0
3 0 0 0 0
4 0 0 0 0
.. ...
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[100 rows x 51 columns]
LABEL abortions ahead biden close constitution control country \
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103 election 0 0 0 0 0 0 0
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.. ...
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198 election 0 0 1 0 0 0 0
199 election 0 0 0 0 0 0 0

court democratic ... trump tuesday vote voters voting weeks \
100 0 0 0 0 0 0 0 0 0
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103 0 0 0 0 0 0 0 0 0
104 0 0 0 0 0 0 0 0 0
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women world year years
100 0 0 0 0
101 0 0 0 0
102 0 1 0 0
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