## DEEP LEARNING PROJECT

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## STEP BY STEP

**PREDICTORS** 

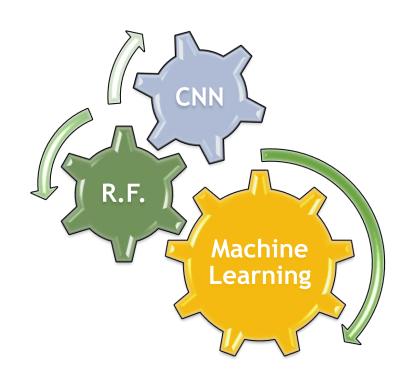
**MODELS** 

**RESULTS** 

INPUT

•[0,2,5..] •[6,0,0..]

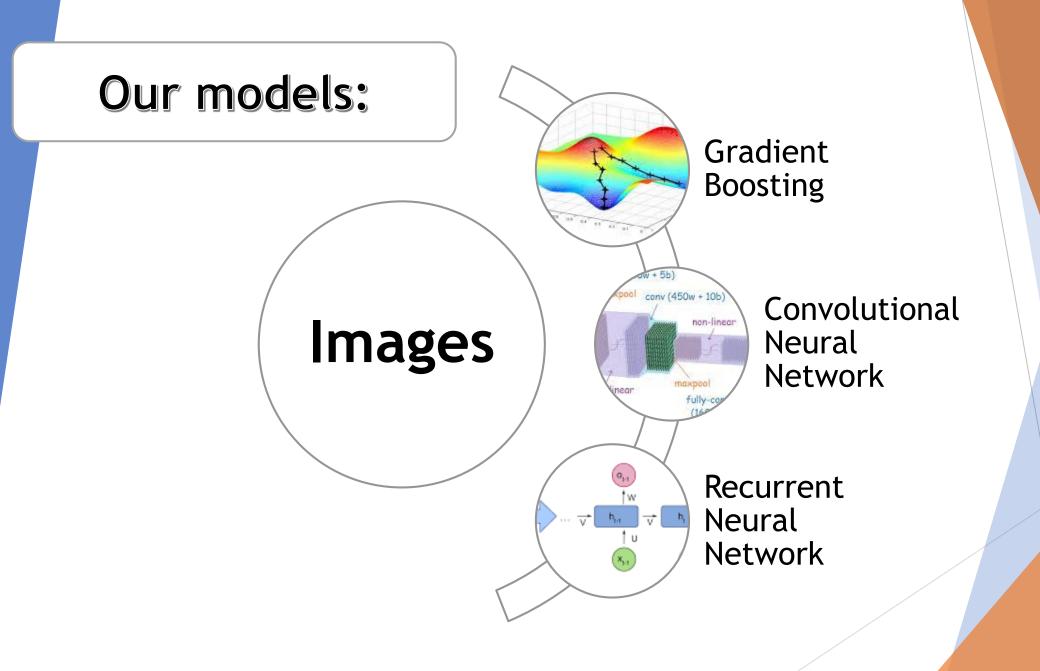
INPUT [•[..3,0,23...] •[88,2,0,3...]

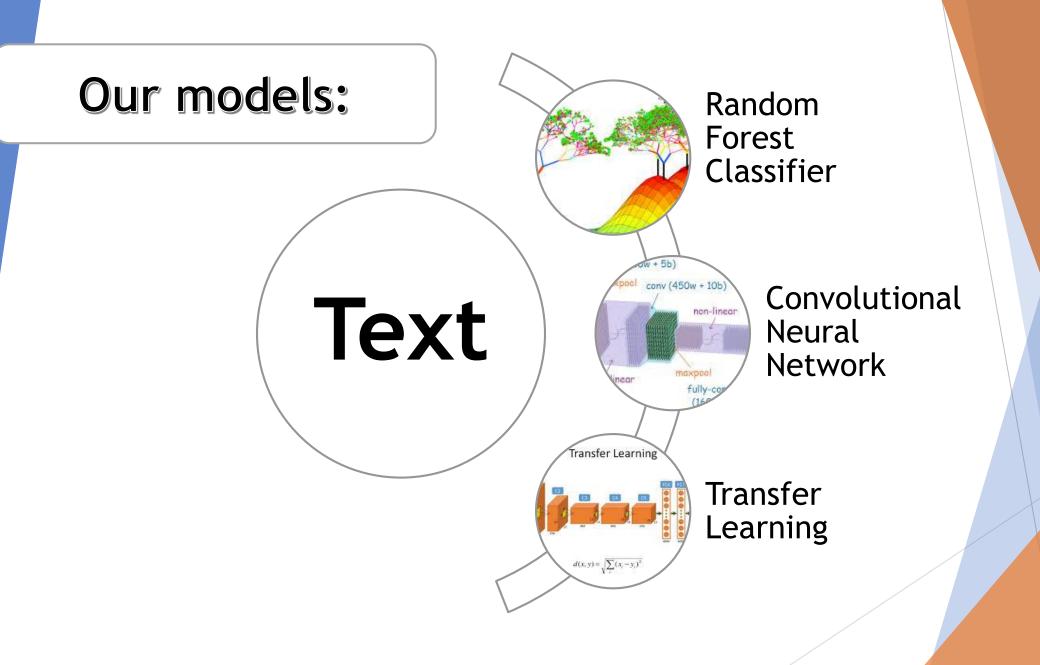


**PREDICTIONS** 

PREDICTIONS

Comedy





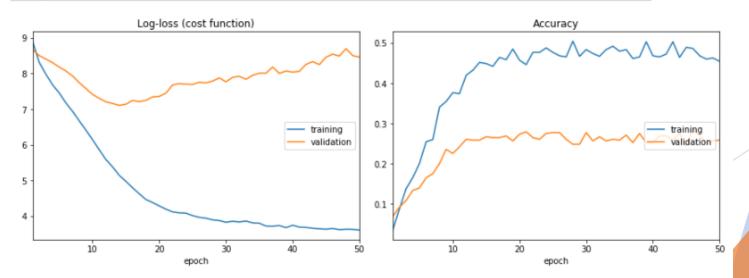
## The results:

## Apply CountVectorizer.

```
from sklearn.feature_extraction.text import CountVectorizer
  x_vector=CountVectorizer(max_features=9500) #(ngram_range=(1,2),max_features=9500)
  X_input=x_vector.fit_transform(full_data['plot'])
```

```
from keras.layers.embeddings import Embedding

model2=Sequential()
model2.add(Embedding(7895,32,input_length=9500))
model2.add(Flatten())
model2.add(Dense(256,activation='relu')) #,input_shape=((X_input_train.shape)[1],)))
model2.add(Dense(24,activation='sigmoid'))
model2.compile(loss='categorical_crossentropy',optimizer='adam',metrics=['accuracy'])
```



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