

```
In [57]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot
import re
import string

from sklearn.model_selection import train_test_split
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score, classification_report, confusion_mat
```

```
In [40]: df=pd.read_csv(r"C:\Users\SENAPATHI REDDY.K\Downloads\_MConverter.eu_imdb_review
```

```
In [41]: df.head()
```

```
Out[41]:
```

	review	sentiment
0	One of the other reviewers has mentioned that ...	positive
1	A wonderful little production. The...	positive
2	I thought this was a wonderful way to spend ti...	positive
3	Basically there's a family where a little boy ...	negative
4	Petter Mattei's "Love in the Time of Money" is...	positive

```
In [42]: print("dataset_shape:",df.shape)
df.info()
```

```
dataset_shape: (50000, 2)
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 50000 entries, 0 to 49999
Data columns (total 2 columns):
 #   Column      Non-Null Count  Dtype  
 ---  --          -----          object 
 0   review       50000 non-null   object 
 1   sentiment    50000 non-null   object 
dtypes: object(2)
memory usage: 781.4+ KB
```

```
In [43]: df.isna().sum()
```

```
Out[43]: review      0
sentiment    0
dtype: int64
```

```
In [44]: df.value_counts()
```

Out[44]: review

sentiment

Loved today's show!!! It was a variety and not solely cooking (which would have been great too). Very stimulating and captivating, always keeping the viewer peaking around the corner to see what was coming up next. She is as down to earth and as personable as you get, like one of us which made the show all the more enjoyable. Special guests, who are friends as well made for a nice surprise too. Loved the 'first' theme and that the audience was invited to play along too. I must admit I was shocked to see her come in under her time limits on a few things, but she did it and by golly I'll be writing those recipes down. Saving time in the kitchen means more time with family. Those who haven't tuned in yet, find out what channel and the time, I assure you that you won't be disappointed.

positive 5

Hilarious, clean, light-hearted, and quote-worthy. What else can you ask for in a film? This is my all-time, number one favorite movie. Ever since I was a little girl, I've dreamed of owning a blue van with flames and an observation bubble.

The cliché characters in ridiculous situations are what make this film such great fun. The wonderful comedic chemistry between Stephen Furst (Harold) and Andy Tennant (Melio) make up most of my favorite parts of the movie. And who didn't love the hopeless awkwardness of Lynch? Don't forget the airport antics of Leon's cronies, dressed up as Hari Krishnas: dancing, chanting and playing the tambourine--unbeatable! The clues are genius, the locations are classic, and the plot is timeless.

A word to the wise, if you didn't watch this film when you were little, it probably won't win a place in your heart today. But nevertheless give it a chance, you may find that "It doesn't matter what you say, it doesn't matter what you do, you've gotta play."

positive 4

How has this piece of crap stayed on TV this long? It's terrible. It makes me want to shoot someone. It's so fake that it is actually worse than a 1940s sci-fi movie. I'd rather have a stroke than watch this nonsense. I remember watching it when it first came out. I thought, hey this could be interesting, then I found out how absolutely, insanely, ridiculously stupid it really was. It was so bad that I actually took out my pocket knife and stuck my hand to the table.

Please people, stop watching this and all other reality shows, they're the trash that is jamming the networks and canceling quality programming that requires some thought to create.

negative 3

I see that C. Thomas Howell has appeared in many movies since his heyday in the 80s as an accomplished young actor.

I bought this DVD because it was cheap and in part for the internet-related plot and to see how much older C. Thomas Howell is; I do not recall seeing him in any movies since the 1980s.

In just a few words: what a very big disappointment. I give some low budget movies a chance, but this one started out lame. Within the first 15 minutes of the movie, this elusive woman is chatting with an Asian guy in a chatroom. They basically stimulate themselves to their own chat, she then insists on meeting the participant in person. She meets him, has sex, ties him up and then murders him in cold blood. The plot then deteriorates further.

The plot is thin and flimsy and the acting is very stiff. Do not bother renting it much less purchasing it, even if it is in the \$1 DVD bin. I plan to take my copy of the DVD to Goodwill. I am truly amazed that any of the prior reviewers here gave this movie a bad rating.

negative 3

Nickelodeon has gone down the toilet. They have kids saying things like "Oh my God!" and "We're screwed"

This show promotes hate for people who are n't good looking, or aren't in the in crowd. It say that sexual promiscuity is alright, by having girls slobbering over shirtless boys. Not to mention the overweight boy who takes off his shirt. The main characters basically shun anyone out of the ordinary. Carly's friend Sam, who may be a lesbian, beats the snot out of anybody that crosses her path, which says it's alright to be a b**ch. This show has so much negativity in it that nobody should watch it! I give it a 0

out of 10!!!
negative 3

..
{Possible spoilers coming up... you've been forewarned.}

This is absolutely one of my all time favorite musicals and movie musicals! (The other is Damn Yankees with Gwen Verdon, Tab Hunter and Ray Walston) As we all know, sometimes the luster (not to mention the songs) of a show are lost in its transition from stage to screen. This is, for the most part, DEFINITELY not the case here.

The sets are divine, bright and colorful, the characters are bigger than life and you can't help but love them, and Michael Kidd's choreography is absolutely stunning. (So glad to know they used the original Broadway choreographer)

All of the actors "bounce the ball" (that is, have unbeatable chemistry) to perfection in this film. Frank and Marlon are absolutely believable as the proprietor of the oldest established permanent floating crap game in New York, and the most notorious gambler who bets on even the most minute things-- such as his fever going up to 104 if he doesn't take penicillin. Sweet, fresh faced Jean Simmons is perfect for the role of Sarah (although it is true, her singing pipes are not as outstanding as that of Isabel Bigley or Josie de Guzman)-- the mission doll with a heart of gold and a drive to heal all. And last but certainly not least (on my list anyway) is Miss Vivian Blaine, reprising her Broadway role as Miss Adelaide-- the Hot Box lead singer and dancer who would like to finally end her 14 year engagement to Nathan with marriage, and rid herself of the psychosomatic cold he's given her.

First off, kudos to Stubby Kaye and B.S. Pulley as they reprise their Broadway roles as Nicely-Nicely Johnson and Benny Southstreet. There were never two more loveable gamblers than these guys.

Brando is superb, as usual, and though he's not got the voice of Robert Alda or Peter Gallagher, you forget it-- as he has this sense of determination to bring all he can to his role as Sky Masterson. "Luck Be A Lady" gives me chills every time I see him perform the number. Especially enjoyable is hearing him say "Daddy... I got cider in my ear."

Simmons is charming and pleasant in a role well suited to her looks, voice and the way she carries herself. You long so dearly for her not only to win Sky (or, toward the end, believe him), but to help people overcome their gambling, drinking and other sins, and live a life with God. Her rendition of "If I Were A Bell" is splendid, to say the least!

Sinatra is the man. He is so perfect for the role of Nathan Detroit-- and here he sings parts that Sam Levene from the Broadway cast never could (terrific actor, but the chap was tone deaf... go figure). I really enjoyed the addition of the song "Adelaide"... wish some guy would sing like that to ME. Frankie's cool, slick demeanor transcends the boundaries of this movie. But most importantly, you want him to marry Adelaide.

And speaking of Adelaide, Vivian Blaine is just sheer perfection in this role. From the accent to her belting out "Adelaide's Lament", she's just terrific. And she's also my favorite part of the entire movie. She really makes you feel for Adelaide... especially when she cries right before and then again during "Sue Me". I still haven't decided whether I like "Pet Me Poppa" better than "Bushel and a Peck"... maybe I like them equally. Either way, she does fantastic with those as well as "Take Back Your Mink." (I'm sad that they left out "hollanderize" from the film...) She's absolutely MARVELOUS, not to mention hilarious, and my favorite part of the entire film.

One of the best things about this movie is their lingo. It's a mixture of high class and street slang. Never do they use "It's", "I'll" or "That's." It's always "It is", "I will" and "That is." Overall, Guys & Dolls is one of my favorite all time movies and musicals, and it's one that you should take time to watch every time it comes on. My only complaint? No "Marry The Man Today." Now THAT'S a good song. positive 1
{rant start} I didn't want to believe them at first, but I guess this is what people are talking about when they say South Korean cinema has peaked and may even be going downhill. After the surprisingly fun and moving monster movie "Gwoemul" (aka "The Host") of 2006-- which actually succeeded in making a sharp satire out of a B-movie genre-- successive Korean blockbusters have become more and

more generic, even though their budgets (mainly spent on special effects) have become more and more fantastic. Do South Korean movie-makers really want to squander all the audience and investor goodwill, which their industry has built up since the 1999 break-out film "Shiri/Swiri", by making a whole series of big budget mediocre movies like mainland China did? {rant end}

The only "reason" I can fathom for making this movie is to dupe the investors into financing the most detailed and fluid digital animation of a Korean/ East Asian-styled dragon I have seen to date, for the final scenes. Now if they had introduced that dragon at the beginning and given it more personality and purpose like in the 1996 "Dragonheart", the movie might have had a few more redeeming qualities other than having lots of digitally animated dragons. Remember "Dungeons & Dragons" in 2000? Hasn't anyone learnt that the trick is not how MUCH special effects you use, but how WELL you use it? I hope there are more (and better) Korean legends they can use, because they have just killed a lot of international interest in Korean dragon legends with the way they filmed this one.

In short, I agree with all the negative reviews gone before and wonder how Koreans felt about having their folk anthem "Arirang" being played at the very end. As a creature feature, I would have given it at least 5 stars out of 10 if the special effects or action sequences had been worth it, but I've seen many video games with better camera work and scripting (just less dragons).

negative 1

~~I was able to see this movie yesterday morning on a early viewing pass~~

I am a mom of 2 children, who range from 11 down to 6. So I'm sure plenty of parents can relate to having to see many many "kids" movies. This was refreshing for me. I haven't read this particular book, so I don't know if it stayed true to the book or not. But it sure took the grossness factor to a high level. This is the story of the "new" kid in town and it just so happens that there are a group of boys who have formed a club of sorts and love to pick on kidssound familiar? Haven't we all suffered this one time or another. He has the little brother who he cant stand and parents that he is embarrassed about. What I enjoyed most of all was seeing how each character was totally different from another they all stood out. The bully (why do they always make the bully a red head? My daughter has red hair! and she is no bully!..lol) is well a great bully, who finds himself being yelled at by his own big brother. It took twists and turns and well you fall in love with all of them and really find yourself rooting for all the characters! Even the parents, great connection between father and son. All around enjoyable, sweet,funny, gross etc.....Take your kids!!! You will enjoy it as much as they do!

positive 1

Film auteur Stephan Woloszczuk explores the depths of love, passion, and brotherhood and the devastating results of loss in his latest film BLINDSPOT.

BLINDSPOT'S diegetic world is exploding with suspense and takes the audience on a twisting journey to the core of the human soul. As a director, he manages to draw the human spirit from the performances of his actors. With superb editing, especially in the flashback scenes and beautiful cinematography, BLINDSPOT is a thought provoking suspense from beginning to end. A thriller which leaves much to the minds' eye.

What an astounding accomplishment for Stephan Woloszczuk.

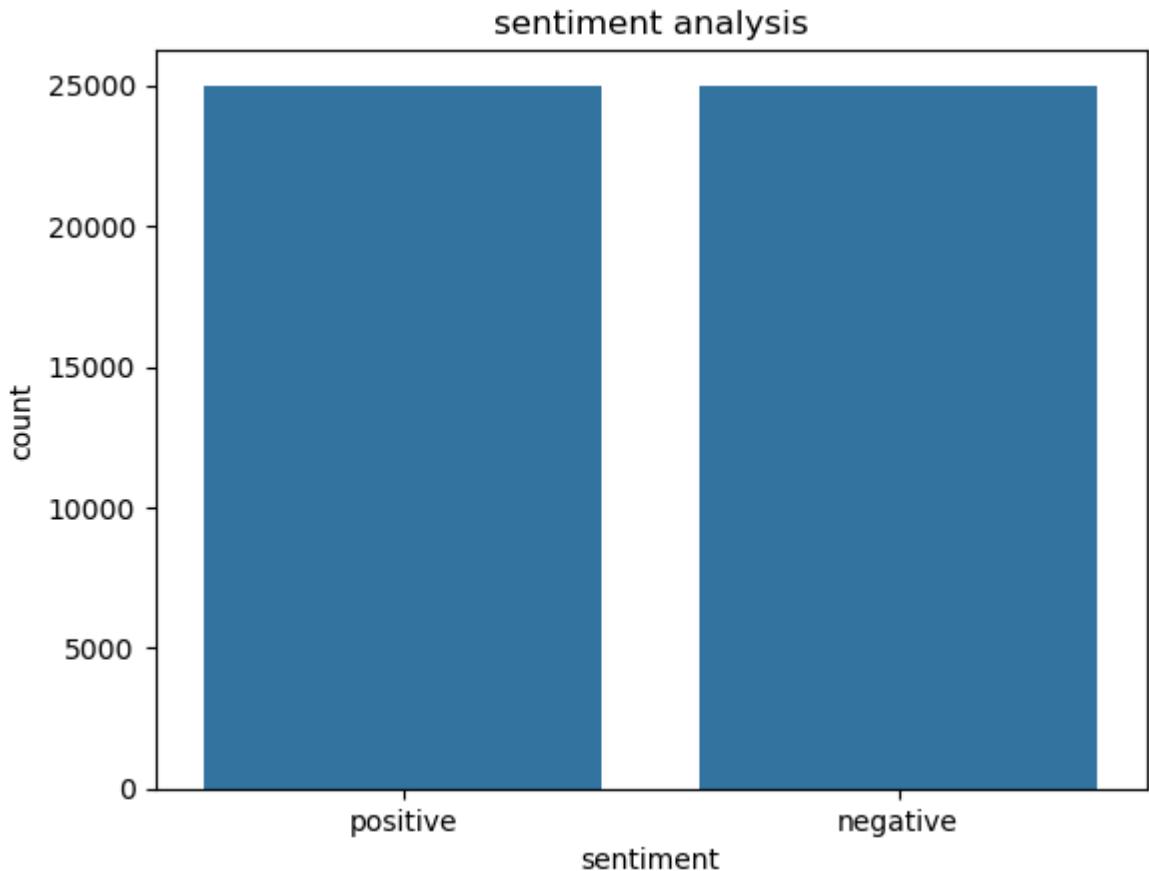
 Cheers Stephan! Angela Sander

positive 1

" It had to be You" is another sign that Hollywood is running out of ideas. This picture is about Charlie Hudson a former police officer turned Author. When Charlie's fiancé goes out of town he's stuck with all of the wedding planning. He spends a week at a fancy hotel and meets Anna Penn a teacher who just happens to also be getting married. The two quickly become friends and set out to plan their separate weddings together. This is when the plot gets boring, Charlie falls in love with Anna and she has to choose between a safe life or Charlie. This movie rips off every romantic comedy ever made and just has you waiting for the end of the movie so you can do something else. Micahel Vartan and Natasha Henstridge give really mediocre performances which just makes this movie all the more gut wrenching to watch.

```
negative      1  
Name: count, Length: 49582, dtype: int64
```

```
In [45]: sns.countplot(x="sentiment", data=df)  
plt.title("sentiment analysis")  
plt.show()
```



```
In [46]: df_encoded = pd.get_dummies(  
    df,  
    columns=["sentiment"],  
    drop_first=True,  
    dtype=int  
)
```

```
In [47]: df_encoded
```

Out[47]:

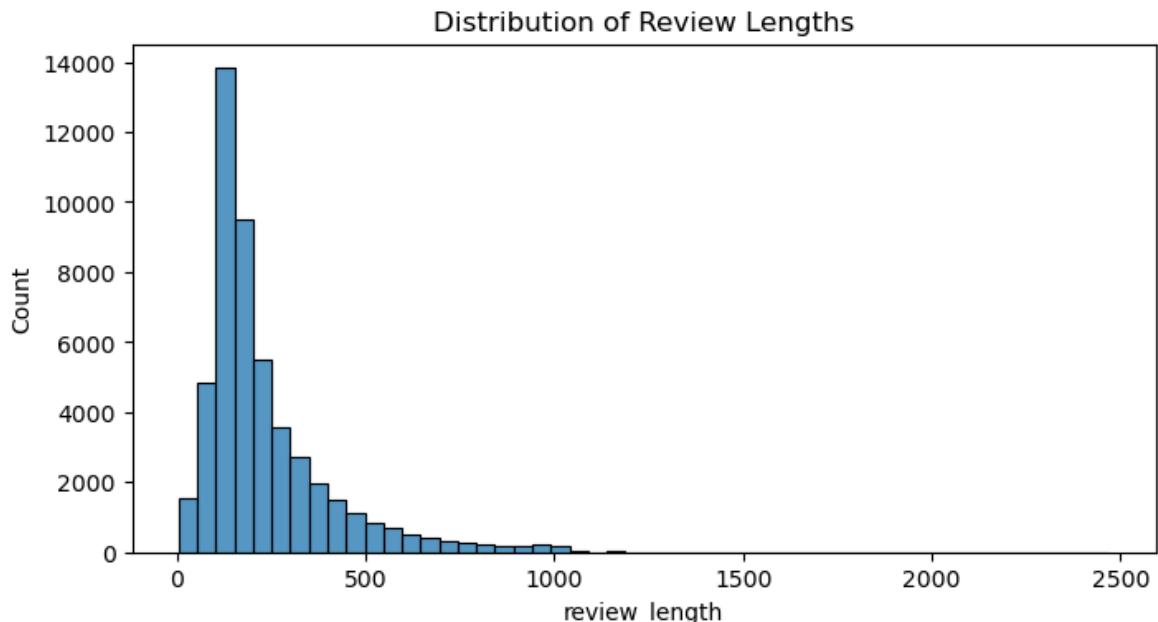
	review	sentiment_positive
0	One of the other reviewers has mentioned that ...	1
1	A wonderful little production. The...	1
2	I thought this was a wonderful way to spend ti...	1
3	Basically there's a family where a little boy ...	0
4	Petter Mattei's "Love in the Time of Money" is...	1
...
49995	I thought this movie did a down right good job...	1
49996	Bad plot, bad dialogue, bad acting, idiotic di...	0
49997	I am a Catholic taught in parochial elementary...	0
49998	I'm going to have to disagree with the previou...	0
49999	No one expects the Star Trek movies to be high...	0

50000 rows × 2 columns

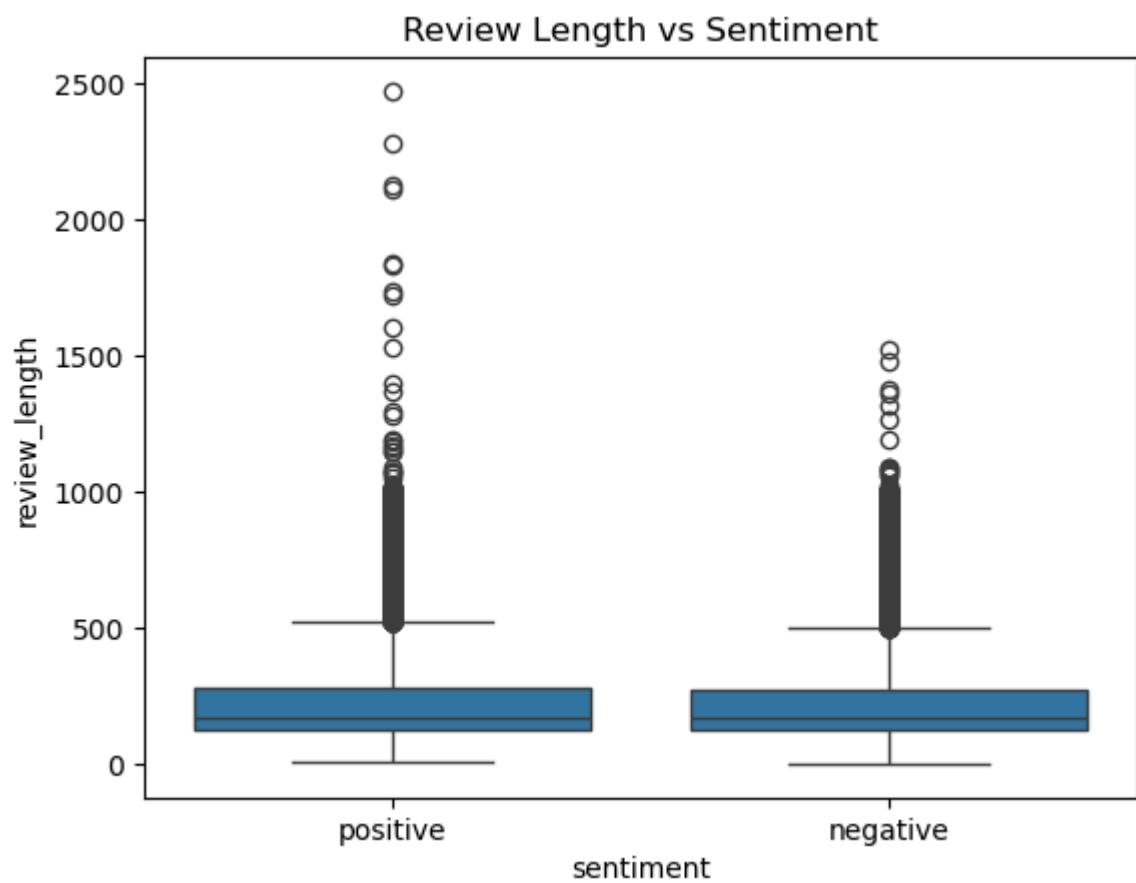
```
In [48]: df["review_length"] = df["review"].apply((lambda x: len(x.split())))
df["review_length"].describe()
```

```
Out[48]: count    50000.000000
mean      231.156940
std       171.343997
min       4.000000
25%      126.000000
50%      173.000000
75%      280.000000
max      2470.000000
Name: review_length, dtype: float64
```

```
In [49]: plt.figure(figsize=(8,4))
sns.histplot(df['review_length'], bins=50)
plt.title("Distribution of Review Lengths")
plt.show()
```



```
In [50]: sns.boxplot(x='sentiment', y='review_length', data=df)
plt.title("Review Length vs Sentiment")
plt.show()
```



```
In [51]: df['review'].str.contains("<br>").value_counts()
```

```
Out[51]: review
True      29200
False     20800
Name: count, dtype: int64
```

```
In [58]: def clean_text(text):
    text = text.lower()
    text = re.sub(r"<.*?>", "", text)
    text = re.sub(r"^\w\s]", "", text)
    text = re.sub(r"\d+", "", text)
    return text

df['clean_review'] = df['review'].apply(clean_text)
```

```
In [59]: df['sentiment'] = df['sentiment'].map({'positive':1, 'negative':0})
```

```
In [60]: x_train, x_test, y_train, y_test = train_test_split(
    df['clean_review'],
    df['sentiment'],
    test_size=0.2,
    random_state=42
)
```

```
In [61]: vectorizer = TfidfVectorizer(
    max_features=5000,
    stop_words='english'
)
```

```
In [63]: X_train_vec = vectorizer.fit_transform(x_train)
X_test_vec = vectorizer.transform(x_test)
```

```
In [64]: model = LogisticRegression(max_iter=1000)
model.fit(X_train_vec, y_train)
```

Out[64]:

 
LogisticRegression
LogisticRegression(max_iter=1000)

```
In [65]: y_pred = model.predict(X_test_vec)
```

```
In [66]: print("Accuracy:", accuracy_score(y_test, y_pred))
print("\nClassification Report:\n", classification_report(y_test, y_pred))
print("\nConfusion Matrix:\n", confusion_matrix(y_test, y_pred))
```

Accuracy: 0.8833

Classification Report:					
	precision	recall	f1-score	support	
0	0.90	0.87	0.88	4961	
1	0.87	0.90	0.89	5039	
accuracy			0.88	10000	
macro avg	0.88	0.88	0.88	10000	
weighted avg	0.88	0.88	0.88	10000	

Confusion Matrix:
[[4293 668]
[499 4540]]

In []: