

# HOW TO ABDUCT HUMANS

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# THE PROBLEM

Seeking new information by finding humans that are somewhat easy to abduct but that have not already been abducted.

## THE NIGHTMARE

By Henry Fuseli (1781)



This is thought to be a depiction of sleep paralysis  
perceived as a demonic visitation

# DATA GATHERING

Reddit!

This is an amazing place on the humans' internet where I gathered my information. They willingly describe the details of their lives for fun.

I obtained my information using two different searches: Alien Abductions and Sleep Paralysis.

I scraped the data from the two subreddits using praw.

After obtaining the data, I went through a cleaning process in which I ensured there were no empty values in the body of the subreddit post.

I also removed the most commonly used English words since they will appear in both subreddits

# WHY SLEEP PARALYSIS?

★**Sleep paralysis** is a state, during waking up or falling asleep, in which a person is aware but unable to move or speak. During an episode, one may hallucinate so it is possible you will be considered a hallucination and not be taken seriously



# MODELING SCORES

Logistic Regression

Training Score: .92

Testing Score: .85

K Nearest Neighbors

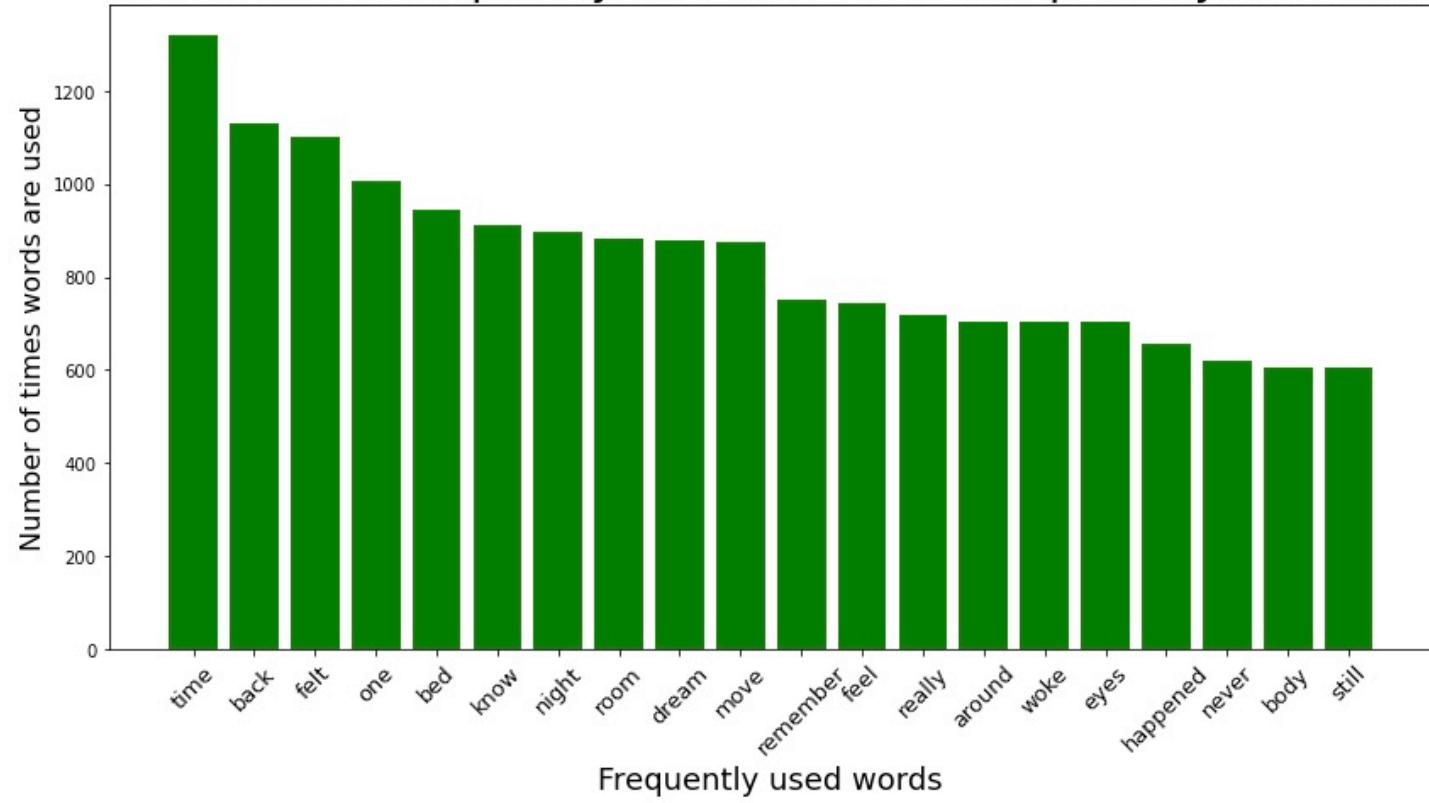
Training Score: .80

Testing Score: .73

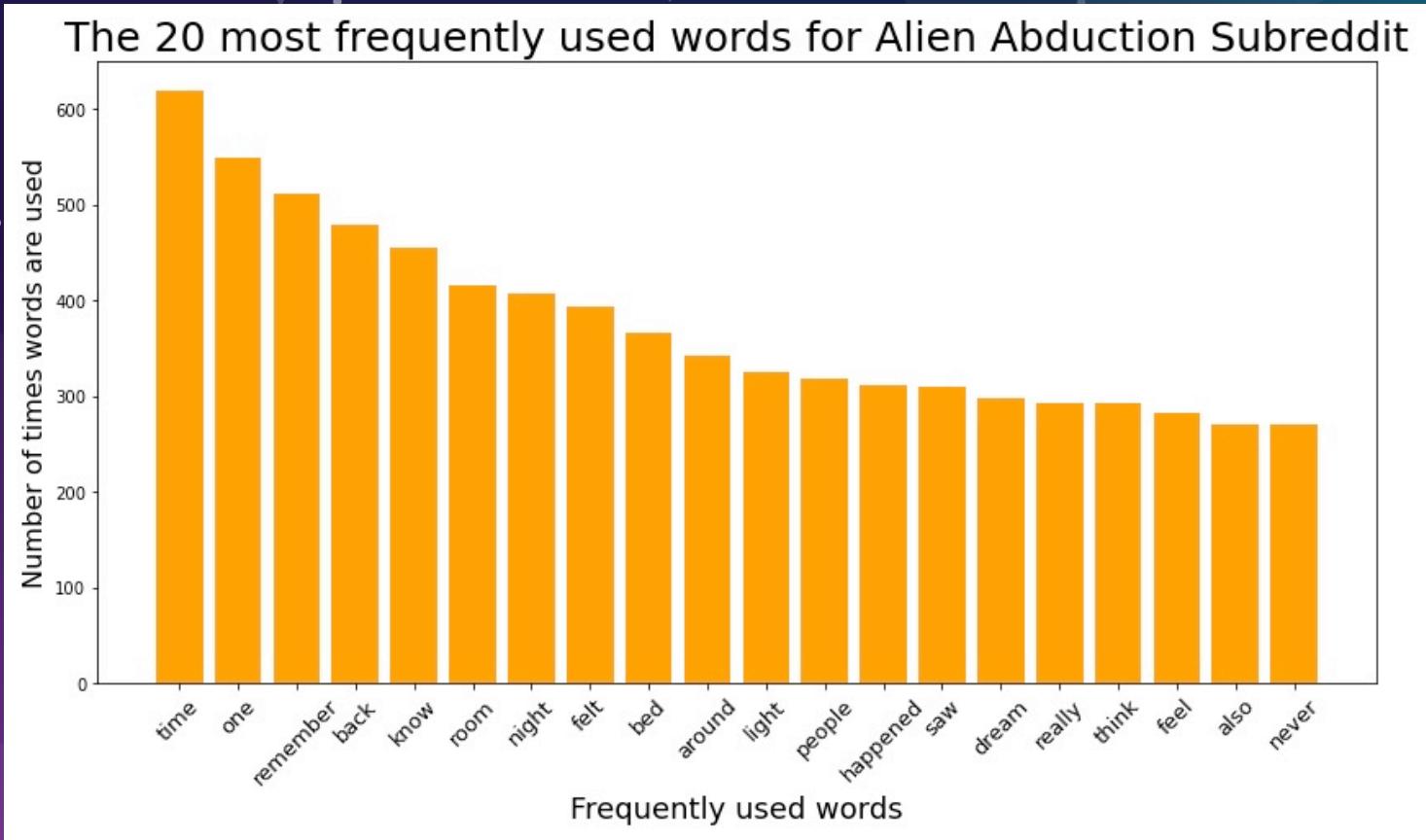
We will choose the Logistic Regression model

# MOST USED WORDS ON THE SLEEP PARALYSIS REDDIT

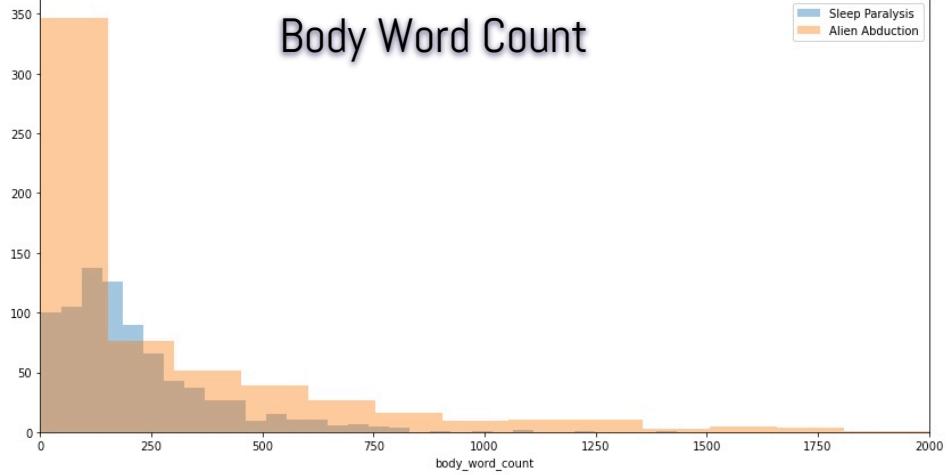
The 20 most frequently used words for Sleep Paralysis Reddit



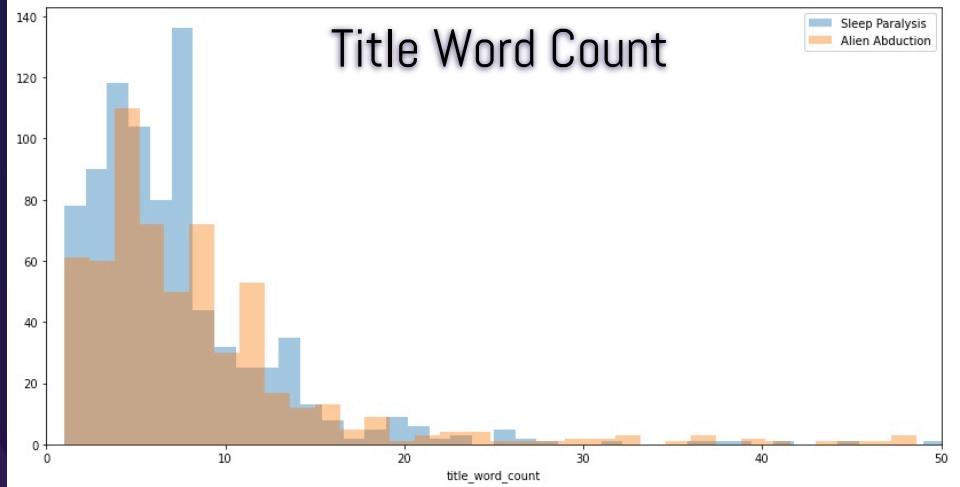
# MOST USED WORDS ON THE ALIEN ABDUCTION REDDIT



## Body Word Count



## Title Word Count



## Sensitivity

Out of all the predictions we said would be correct this is the percentage we got correct

$$\frac{TP}{TP + FN} = \frac{225}{225+46} = .85$$

85%

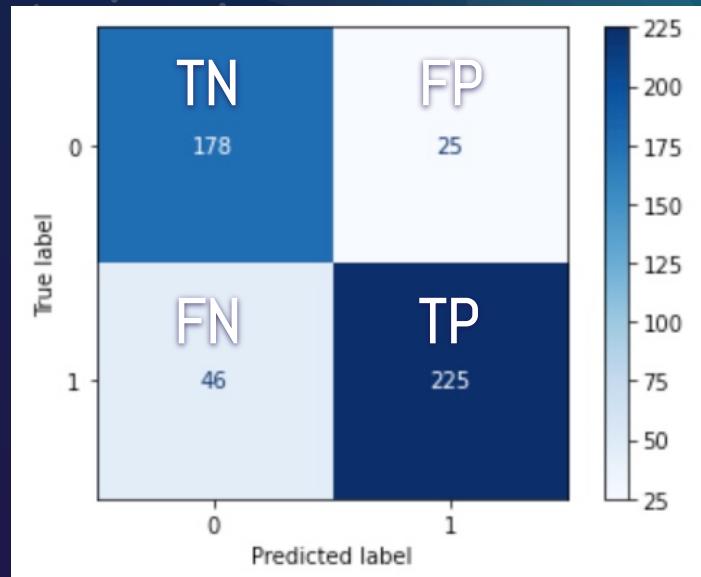
Confusion Matrix

## Specificity

Out of all the predictions we said would be wrong this is the percentage we got correct

$$\frac{TN}{TN + FP} = \frac{178}{178+25} = .88$$

88%



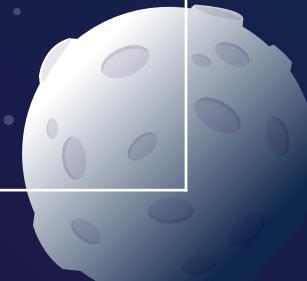
# CONCLUSION



Given some string of words we should be able to predict which subreddit it should belong to with 92% accuracy.

We can even test it out!

Search text	Result
it was dark and i was frozen. i can't remember what happened'	Alien Abduction
'i was in my bed at night and my eyes were opened. there was a light and i thought it was a dream i could not move for a long time'	Sleep Paralysis



# END

