

# OBSCENITY BLOCKER

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Project Aeros



# Scope of the Project



Finding a technological solution for identifying and blocking any obscene media.



## **Unsolicited Imagery to Women**

Women are often harassed with profane language or obscene content.



## **Unsafe Content for Children**

Kids are exposed to unsafe content on the Internet at a young age.



## **Blocking in Professional Settings**

Professional environments require certain words or media to be blocked.



# Solutions

Ways that our model solves this problem.



## Detecting Profane Language

Identifying cuss words in text and detecting as profane.



## Detecting Profane Audio

Performing speech-to-text analysis to detect cuss words.



## Identifying Images as Obscene

Distinguishing images as obscene/non-obscene using image classification.

# Target Market

This model applies to every user on the Internet who may need to use an obscenity/profanity blocker.

However, the vulnerable stakeholders are:

## Women

Women are exposed to unsolicited media from harassers online.



## Children

More and more children are frequently on the Internet, a highly unsafe platform.

# Model Implementation

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Source code of how this solution is  
actually implemented.

# Training model using kernel SVM classifier

```
... from sklearn.svm import SVC
classifier = SVC(kernel = 'rbf', random_state = 0)
classifier.fit(X_train, y_train)
```

```
... SVC(random_state=0)
```

**In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.  
On GitHub, the HTML representation is unable to render, please try loading this page with nbviewer.org.**

```
... y_pred = classifier.predict(X_test)
accuracy_score(y_test, y_pred)
```

```
... 0.9453934095494284
```

Produces an accuracy of 94.5%

```
testtext="you are not someone I would like to talk to "  
df=cv.transform([testtext]).toarray()  
df=clf.predict(df)  
if (df==1):  
    print("profanity detected")  
else:  
    print("profanity not detected")
```

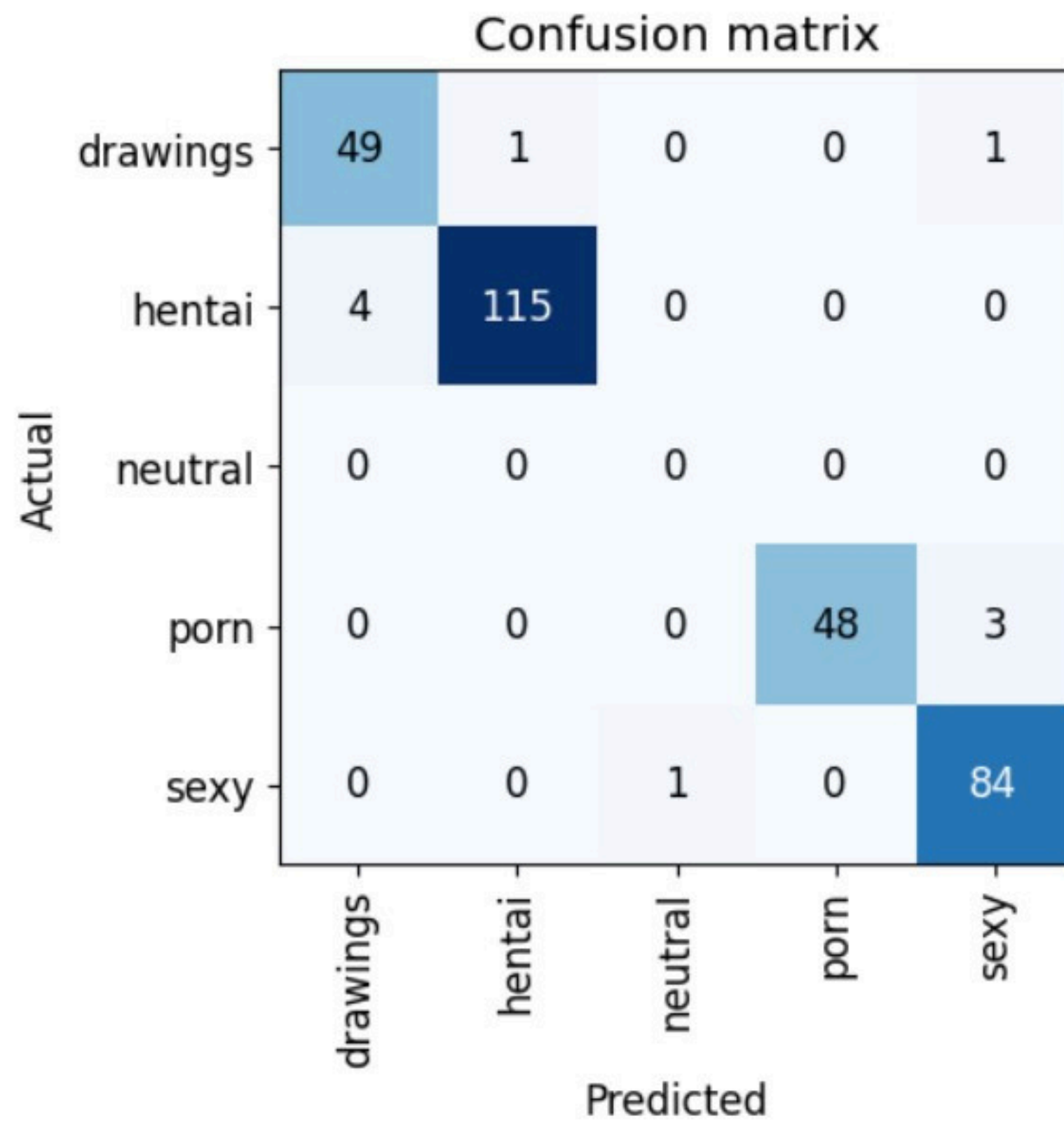
profanity not detected

```
testtext="I hate you ,fuck off "  
df=cv.transform([testtext]).toarray()  
df=clf.predict(df)  
if (df==1):  
    print("profanity detected")  
else:  
    print("profanity not detected")
```


profanity detected

Test Cases

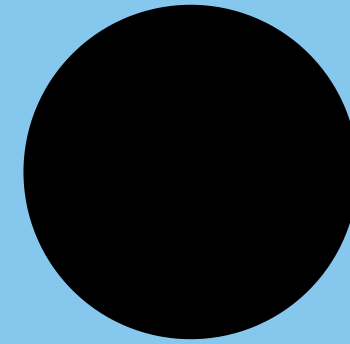
```
interp = ClassificationInterpretation.from_learner(learn)
interp.plot_confusion_matrix()
```



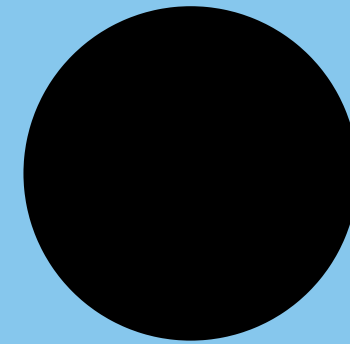




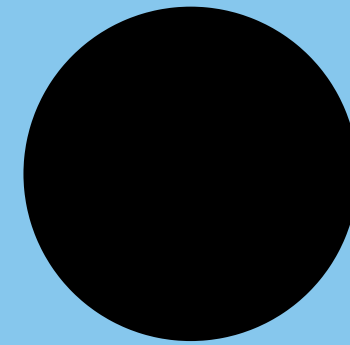
# Model Roadmap



Detection and  
classification of obscenity



Developing an API



Smooth integration to all  
apps of the user



# Model Demonstration

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How this model will be deployed and  
will look to the user.



# Future Scope-

How the model could further be developed.



**Block the media from being uploaded.**



**Prevent display of sites containing such content.**



**Report the user to required agency.**



# Parental Supervision

Giving parents access/alerts to the content that their child is viewing.

**Model detects  
obscene  
websites being  
viewed on the  
child's device**



**An automated  
message is sent  
to the parent's  
contact.**

# Business or Revenue Model

Our services could be lent to private stakeholders.

Professional websites like LinkedIn or other corporate companies that can have an in-built blocker of obscene content from showing/being uploaded.

Video classification can be extended to classifying movies as well- providing a censorship rating using a Machine Learning model.

# Meet our Team



Aryan Kamani



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Aditi Kulkarni



Bhuvan Noone



Tareen Khan



Srujana Akella



**Thank You**