

Nostradamovies

GROUP 2

23/06/2022

Summary

- Introduction
- Data exploration
- Face recognition
- Colorimetry
- OCR
 - Benchmarking
 - Lang detection
 - Sentiment analysis
- Nostradamovies

Introduction

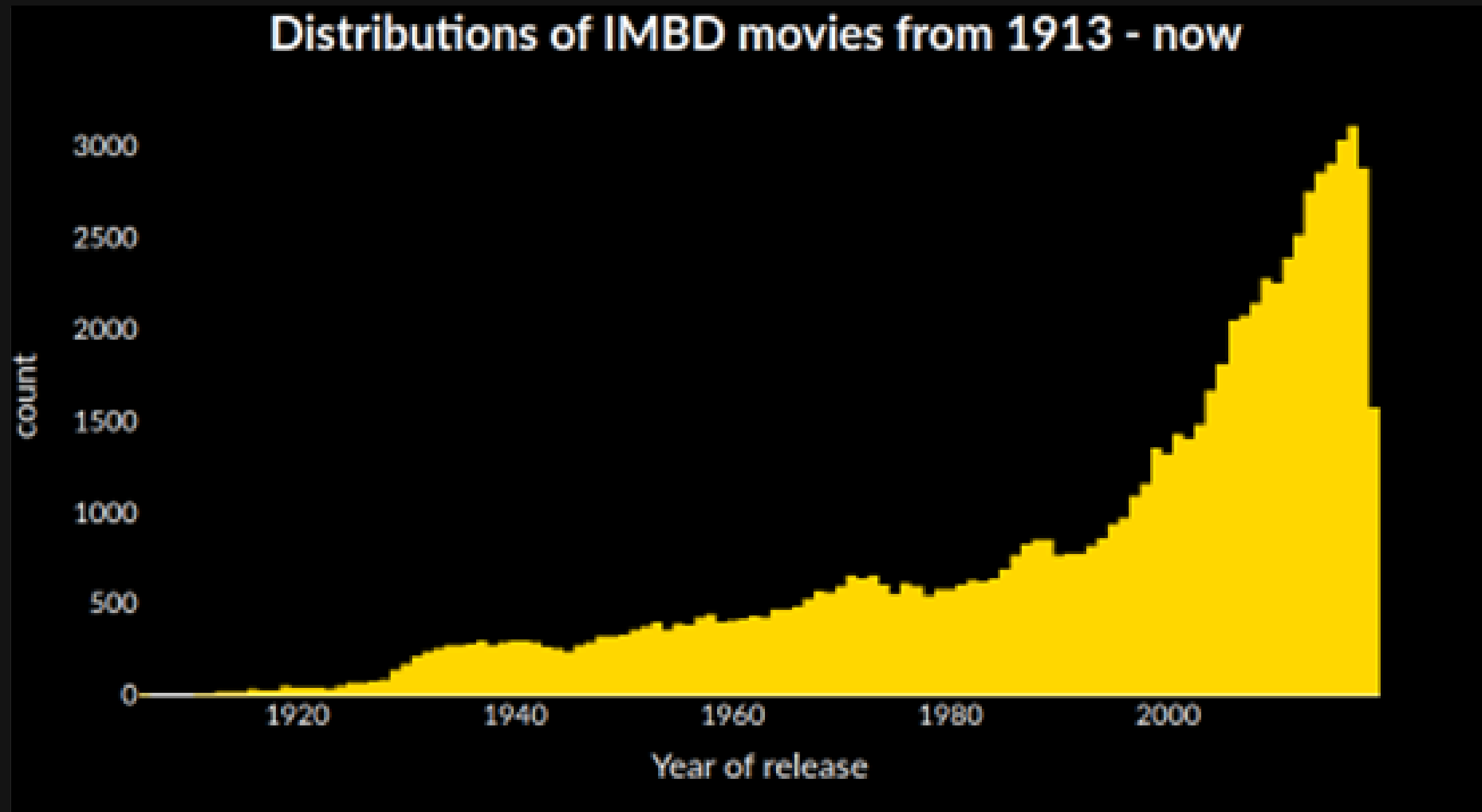
Team

- Yoann Loial
- Victor Mader
- Tristan Chaput

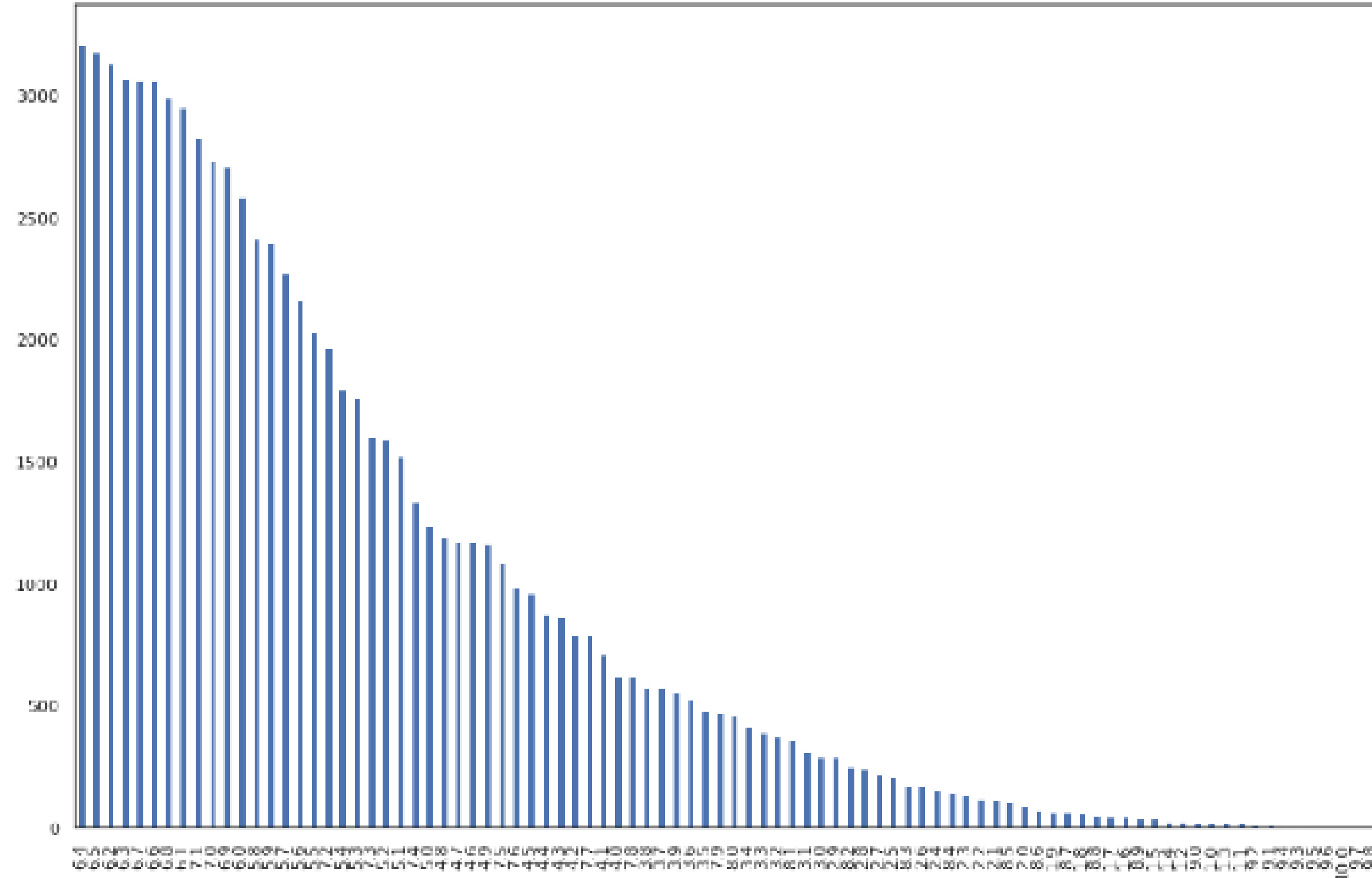
Missions

- Get insight on movies poster structure
- Show graphs and visualisations about movies poster
- Build a prediction system to identify a film's genre
- Describe methodology and used algorithms

Data exploration

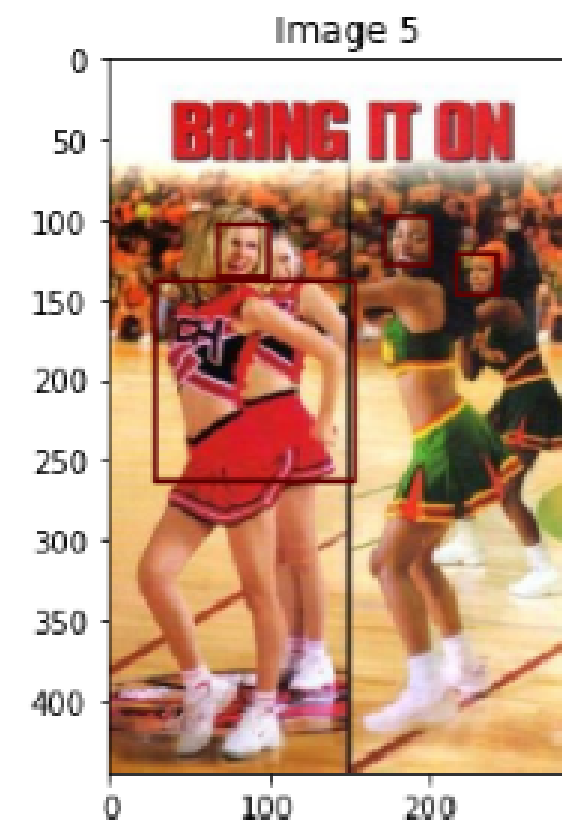
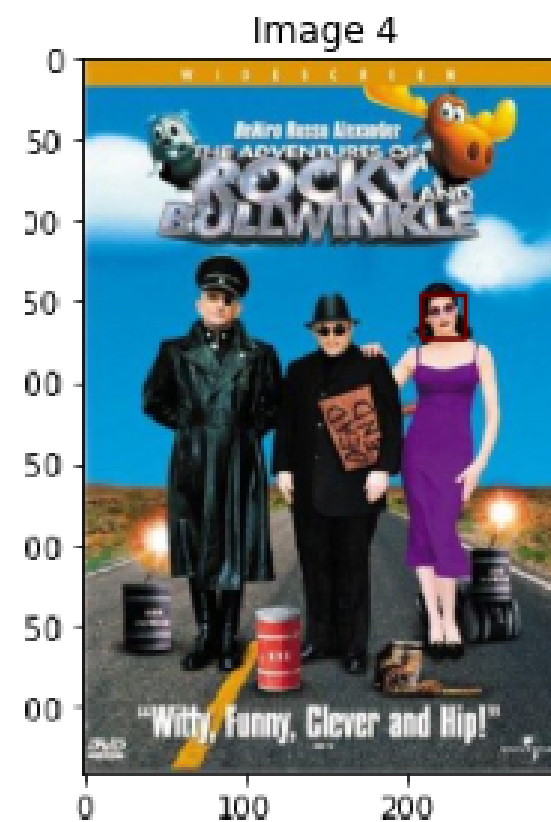
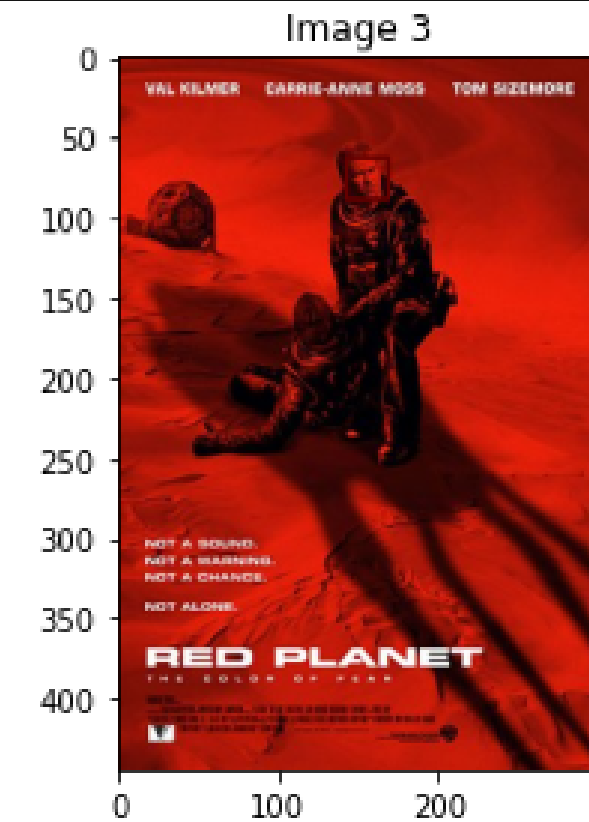
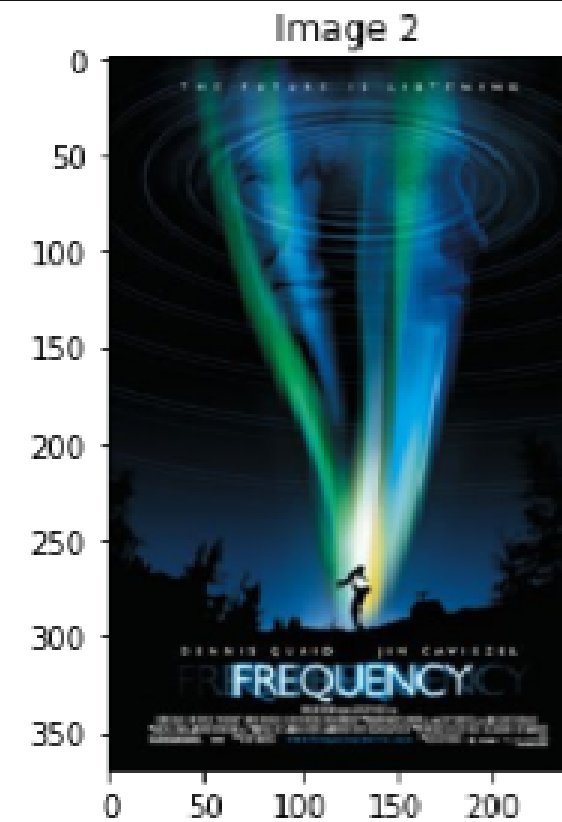
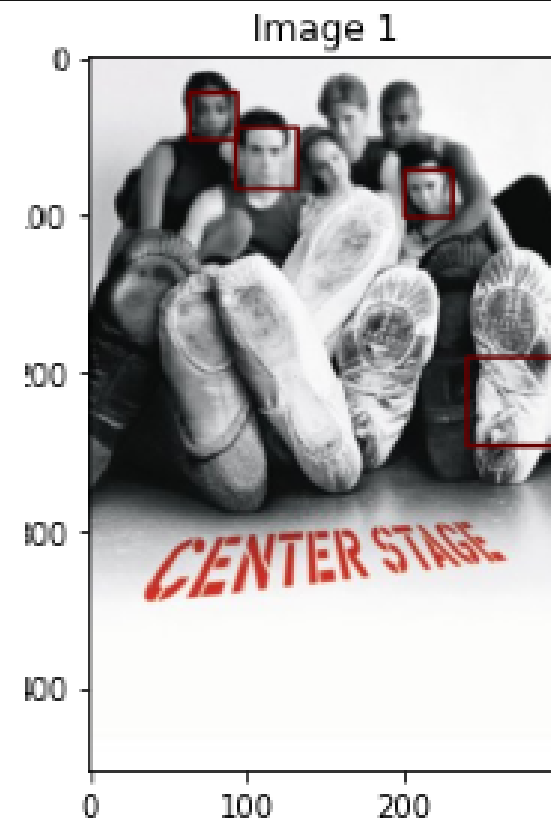


Number of films in relation to viewers opinions



Face recognition

Utilisation de la lib
haar-cascades



Face recognition

Utilisation de la
lib mtcnn

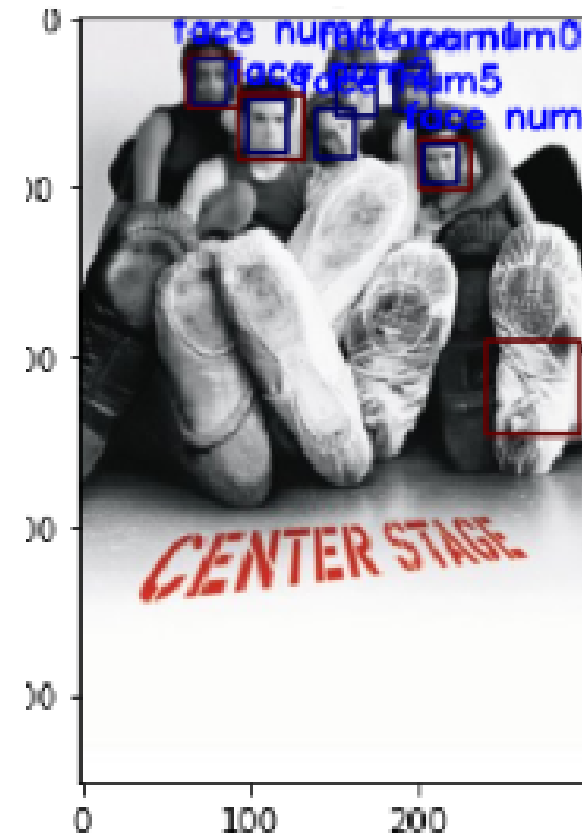


Image 4

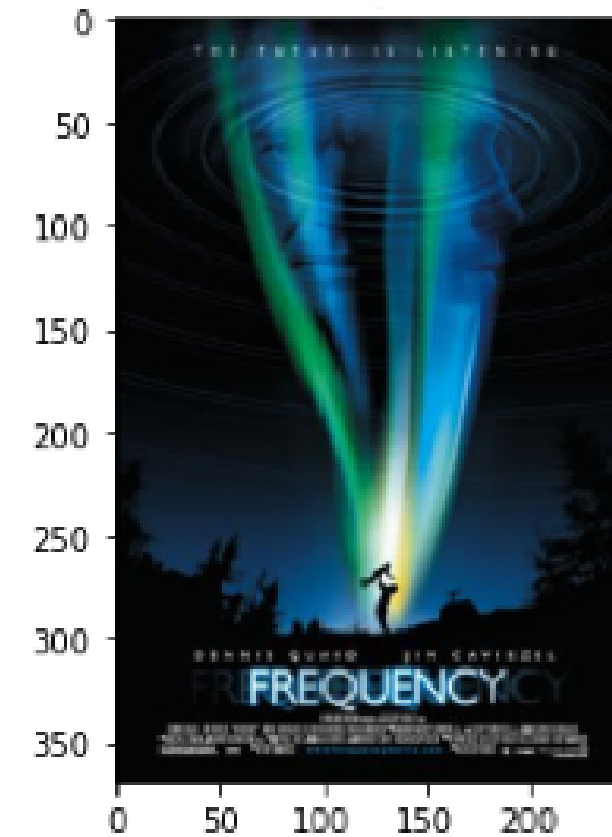


Image 5

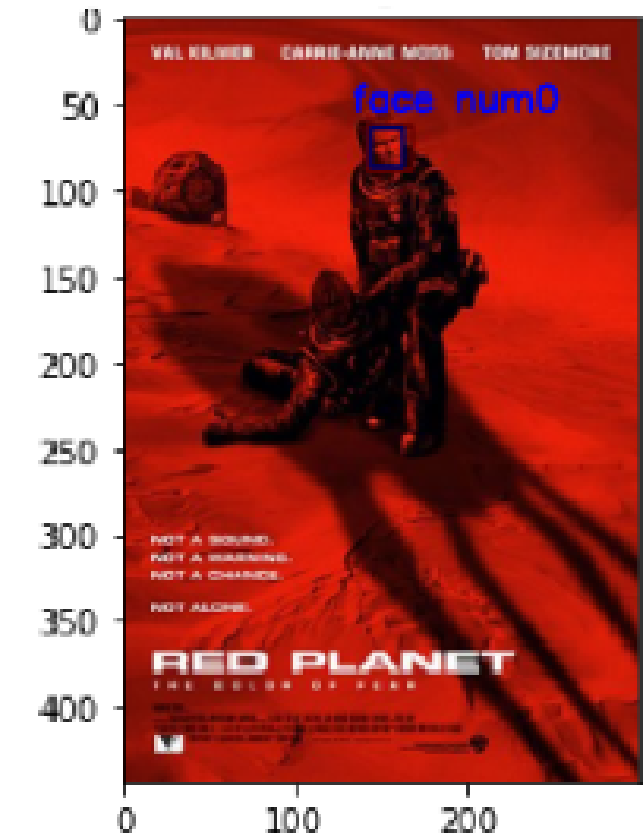
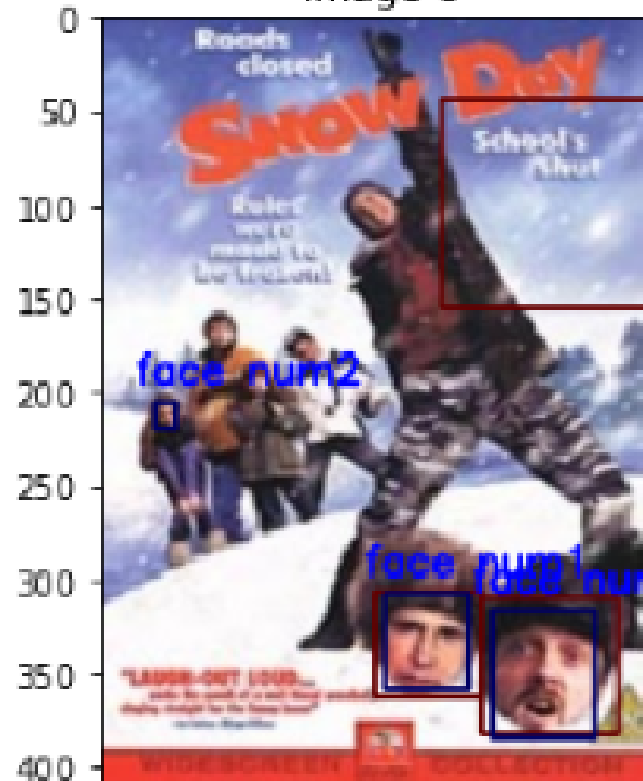
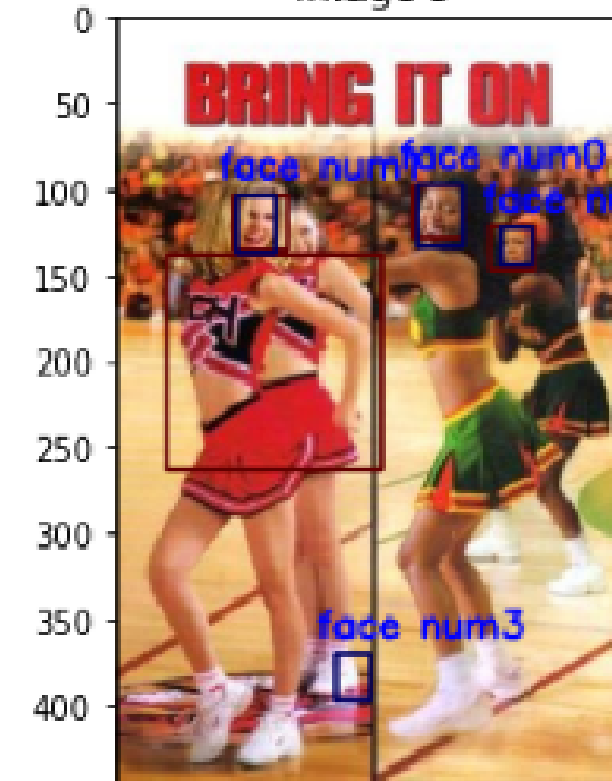


Image 6



Face recognition

Bilan :

- mtcnn
- plus performant
- niveau résultat
- haar-cascades
- rapide
- moins performants
- fausses détections

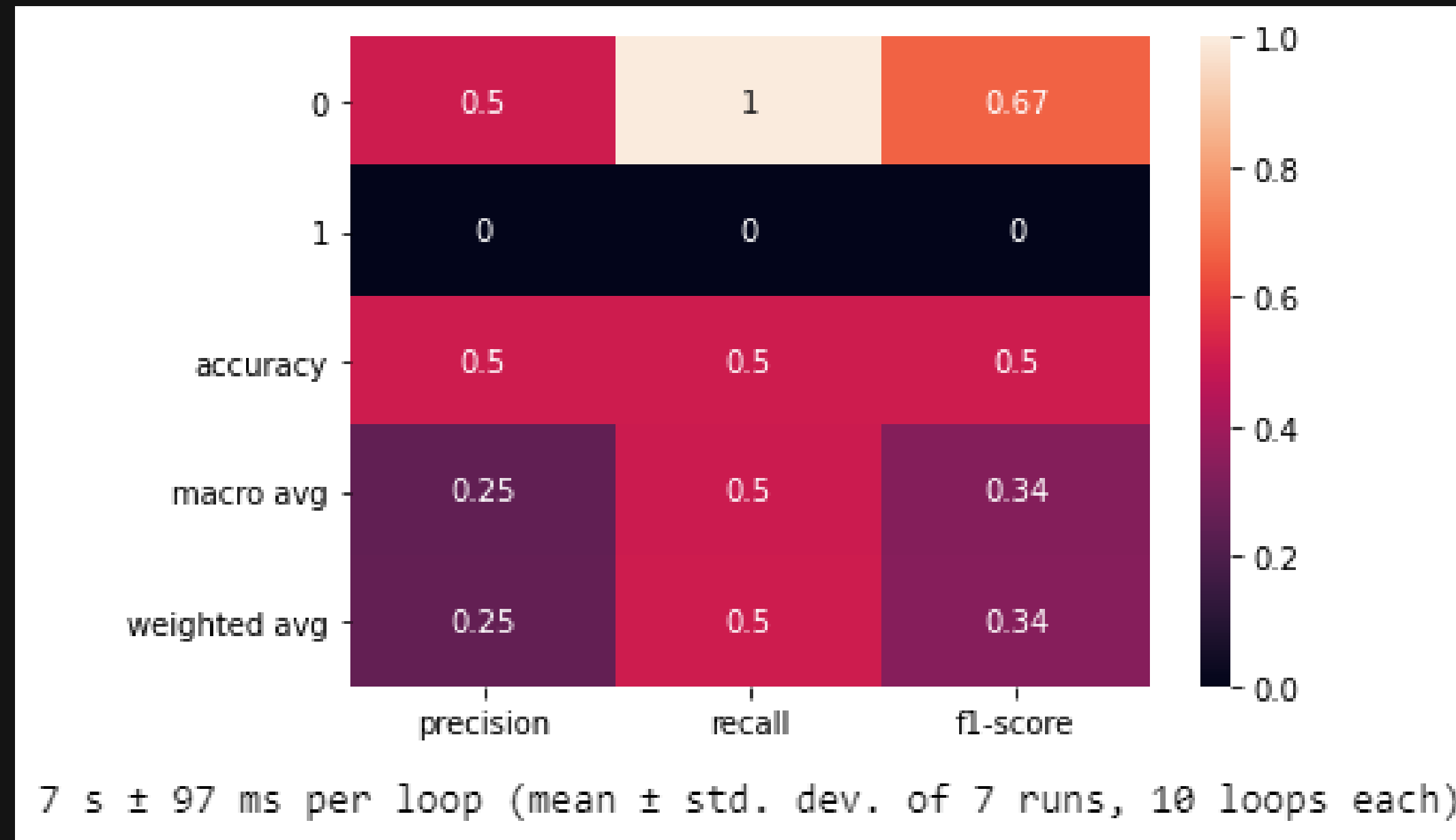
Colorimetry

- Opencv
- Numpy
- Détection de différentes intensités

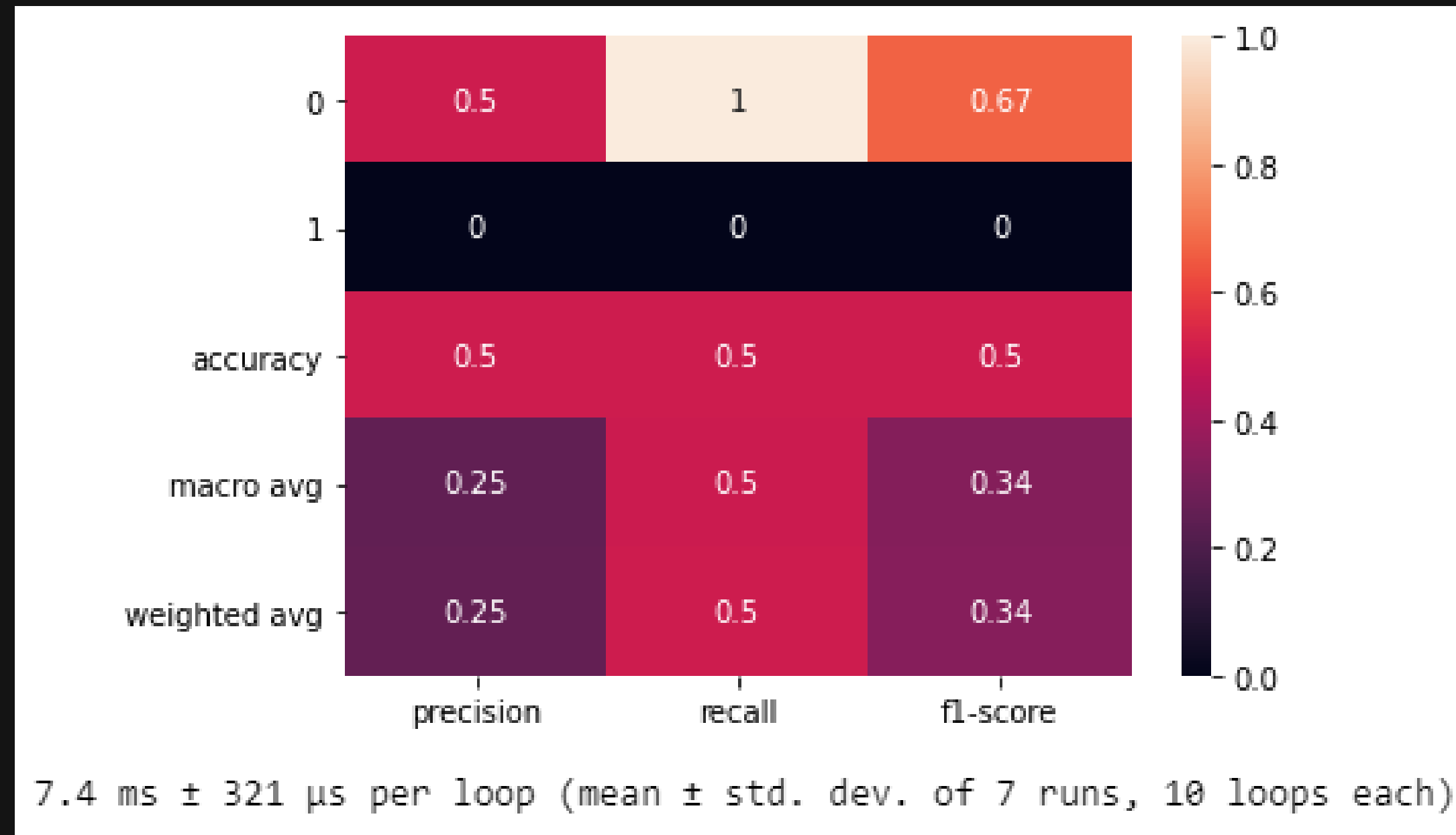
OCR



Benchmarking - spaCy



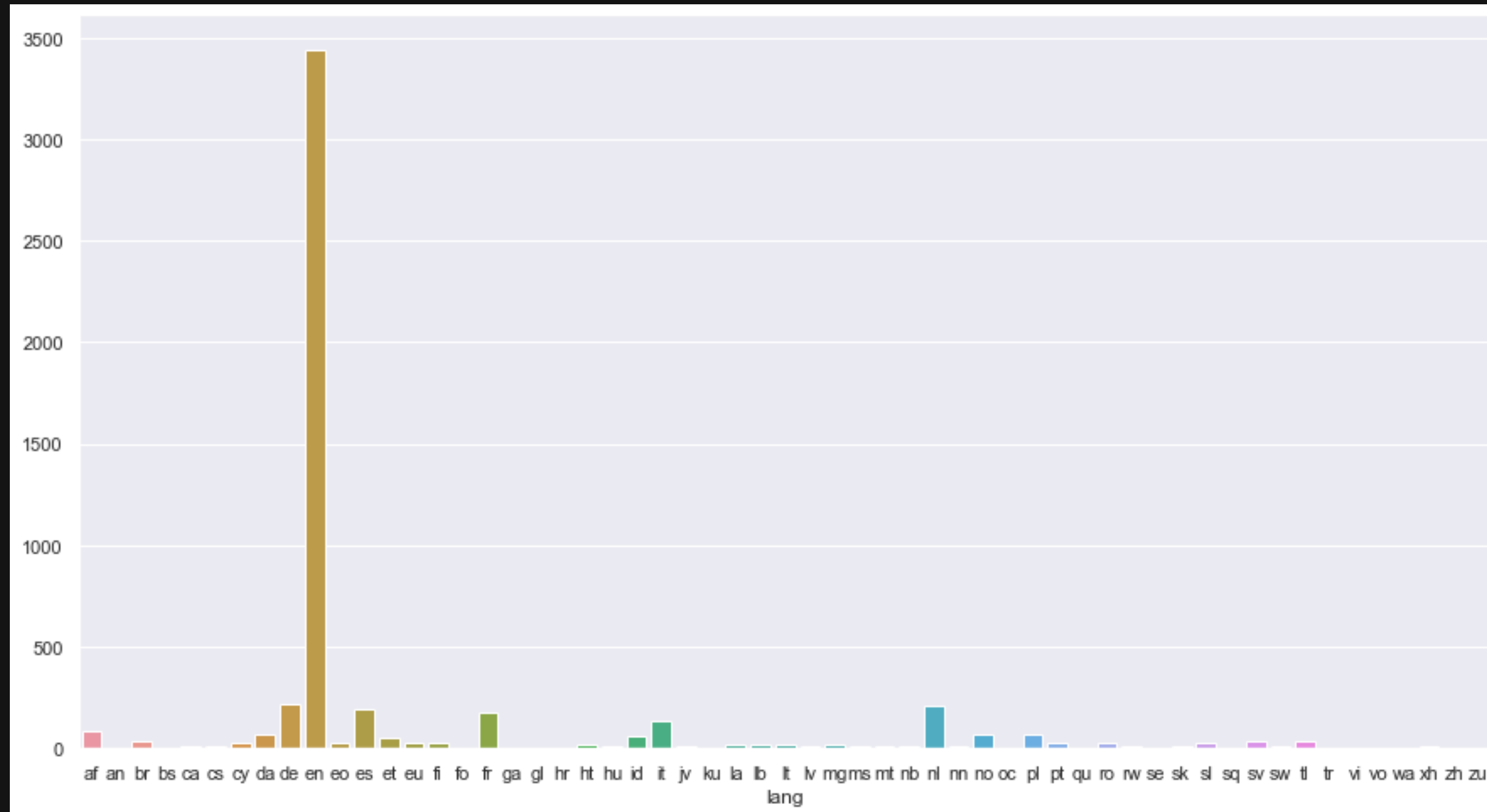
Benchmarking - fasttext



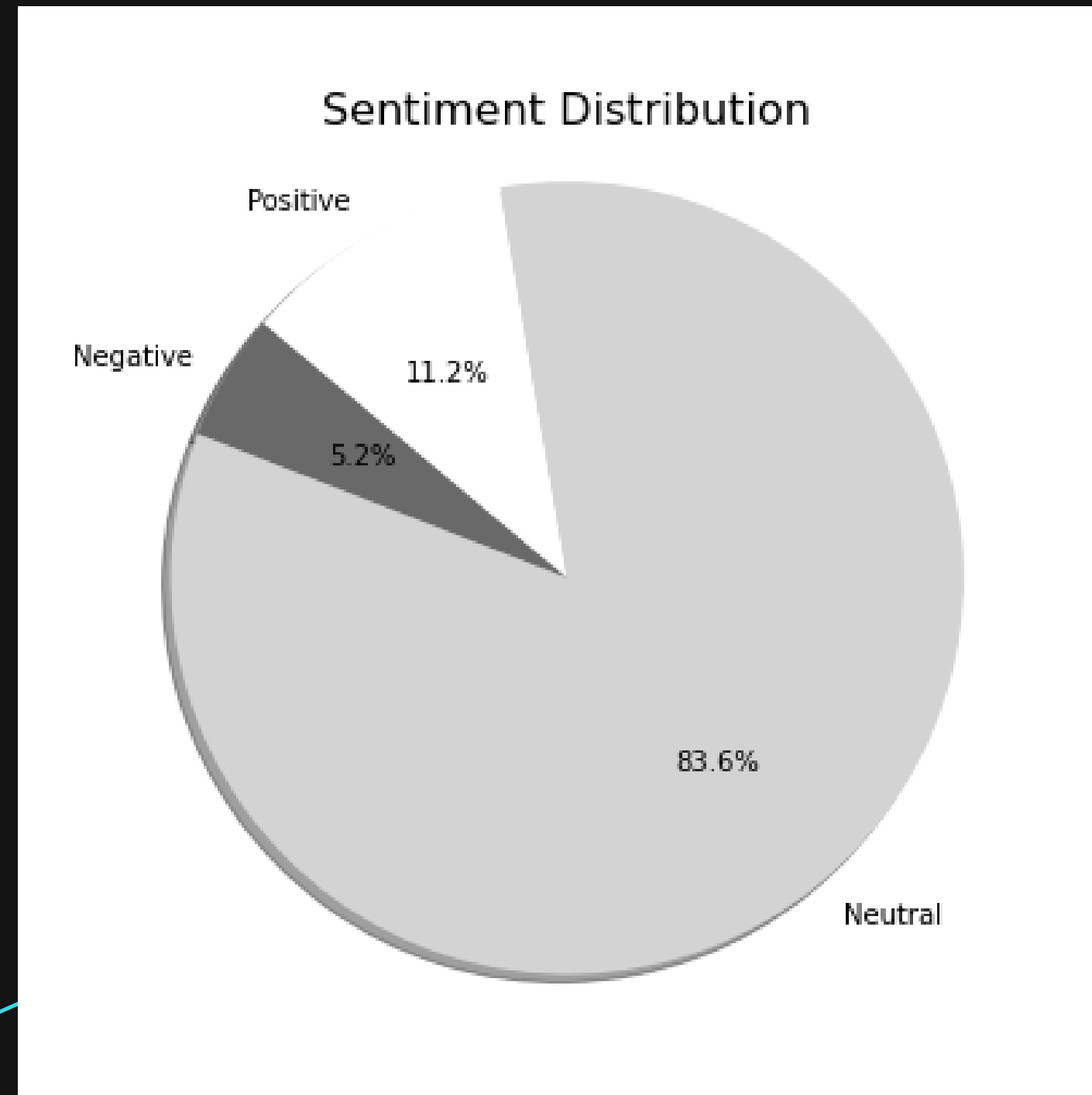
Benchmarking - langid



Lang detection



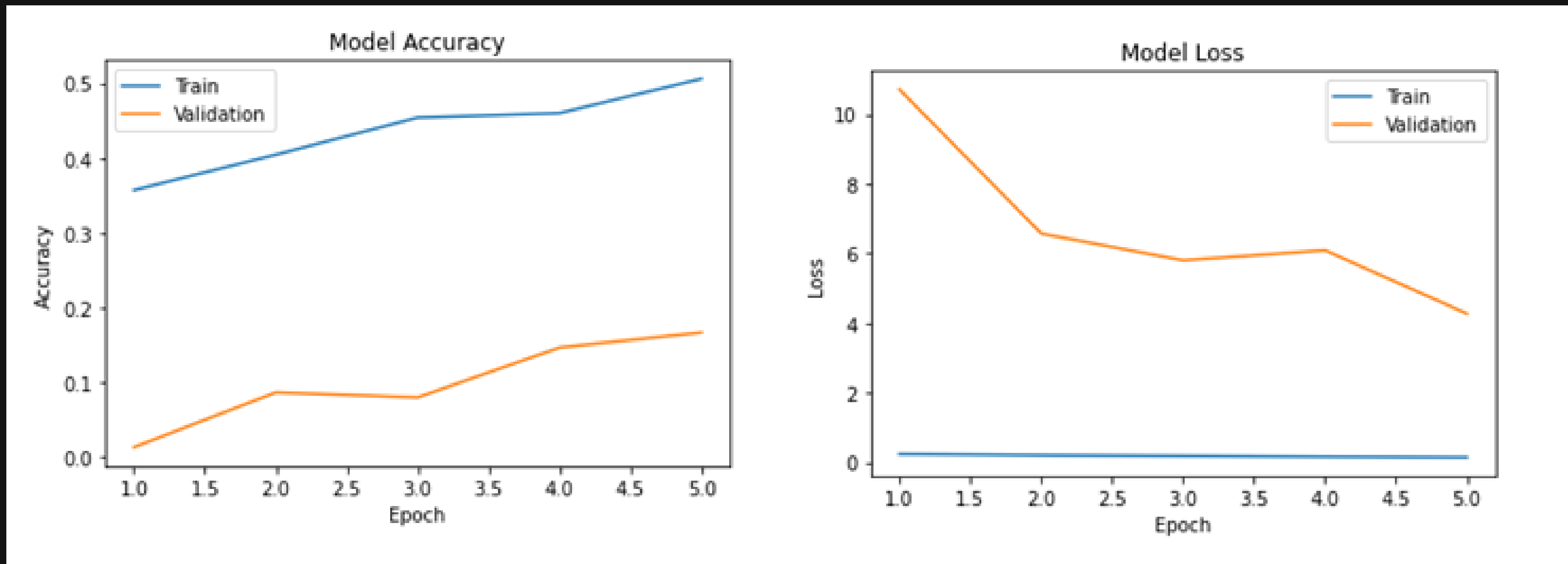
Sentiment analysis



Nostradamovies

```
Epoch 1/5
43/43 [=====] - 56s 1s/step - loss: 0.2357 - accuracy: 0.3570 - val_loss: 10.7167 - val_accuracy: 0.0133
Epoch 2/5
43/43 [=====] - 58s 1s/step - loss: 0.2047 - accuracy: 0.4044 - val_loss: 6.5748 - val_accuracy: 0.0867
Epoch 3/5
43/43 [=====] - 57s 1s/step - loss: 0.1791 - accuracy: 0.4541 - val_loss: 5.8009 - val_accuracy: 0.0800
Epoch 4/5
43/43 [=====] - 57s 1s/step - loss: 0.1573 - accuracy: 0.4600 - val_loss: 6.0909 - val_accuracy: 0.1467
Epoch 5/5
43/43 [=====] - 58s 1s/step - loss: 0.1399 - accuracy: 0.5059 - val_loss: 4.2716 - val_accuracy: 0.1667
```

Nostradamovies



Nostradamovies

Action
Drama
Adventure

