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40 commits

1 branch

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4 contributors

Branch: master

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issey added images to readme

Latest commit d7d7e71 on 4 Aug 2016

data	order files	a year ago
emojis	added emojis for live, and some changes for new dataset	a year ago
haarcascade_files	working partially but possible overfitting	a year ago
paper	added images for readme	a year ago
.gitignore	order files	a year ago
README.md	added images to readme	a year ago
constants.py	added paper and changes	a year ago
dataset_loader.py	order files	a year ago
emotion_recognition.py	fix url paper	a year ago
manual_poc.py	added paper and changes	a year ago
plot_emotion_matrix.py	added paper and changes	a year ago
poc.py	added paper and changes	a year ago

README.md

Emotion recognition with CNN

This repository is the out project about mood recognition using convolutional neural network for the course Seminar Neural Networks at TU Delft.



67% Accuracy

Real Emotion	neutral	0.04	0.01	0.03	0.07	0.04	0.02	0.80
	surprised	0.03	0.00	0.07	0.06	0.02	0.77	0.06
	sad	0.12	0.03	0.10	0.08	0.28	0.00	0.39
	happy	0.01	0.00	0.00	0.90	0.00	0.02	0.07
	fearful	0.14	0.04	0.37	0.05	0.07	0.11	0.22
	disgusted	0.14	0.62	0.05	0.11	0.00	0.00	0.07
	angry	0.50	0.06	0.09	0.05	0.07	0.03	0.21
		angry	disgusted	fearful	happy	sad	surprised	neutral
		Predicted Emotion						

Dependencies

- [NumPy](#)
- [Tensorflow](#)
- [TFLearn](#)
- [OpenCV](#)

Dataset

We use the [FER-2013 Faces Database](#), a set of 28,709 pictures of people displaying 7 emotional expressions (angry, disgusted, fearful, happy, sad, surprised and neutral).

You have to request for access to the dataset or you can get it on [Kraggle](#).

Usage

```
$ python emotion_recognition.py poc
```

Paper

[Link](#)