

Using CNNs to classify people in Famous48 dataset - Subject 12c

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02.05.2024

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1 Introduction

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Note:

Full code can be found in *notebook_keras.ipynb*. Due to limited space, we provide here only the most important code.

2 Libraries used

Firstly, we import all our libraries:

```
1 import numpy as np
2 import tensorflow as tf
3 from tensorflow import keras
4
5 from keras import layers
6 from keras import regularizers
7 from keras import backend as K
8 from keras import Sequential, Input
9 from keras.optimizers import SGD, Adam
10 from keras.losses import categorical_crossentropy
11 from keras.callbacks import LearningRateScheduler
12
13 from sklearn.model_selection import train_test_split
14
15 import matplotlib.pyplot as plt
16
17 import math
18 from functools import partial
```

3 File loading

This is our code for loading files and we will not change it throughout our journey:

```
1 import numpy as np
2 import tensorflow as tf
```

```
3 from tensorflow import keras
4
5 from keras import layers
6 from keras import regularizers
7 from keras import backend as K
8 from keras import Sequential, Input
9 from keras.optimizers import SGD, Adam
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13 from sklearn.model_selection import train_test_split
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15 import matplotlib.pyplot as plt
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```

4 Another section