Outil de visualisation pour un réseau neuronal convolutif

Retro-planning

A FAIRE

A faire

- · CSS application
- · Ameliorer le model

EN COURS

En cours

- · Game 2 Selmane
- · Game 1 Camille
- Data augmentation
 Camille & Selmane
- Learning Transfer
 Camille & Selmane

Terminé

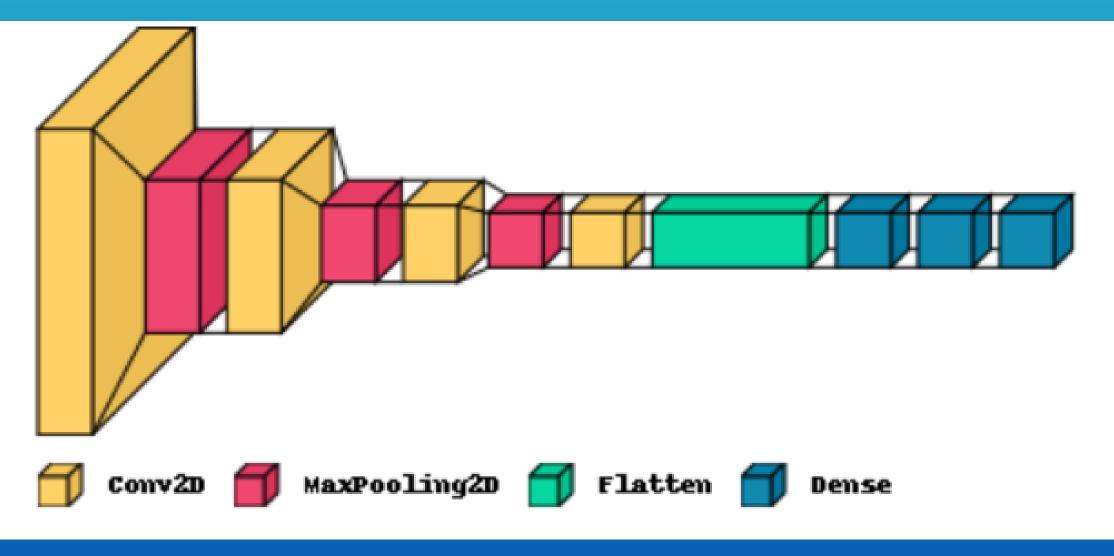
Terminé

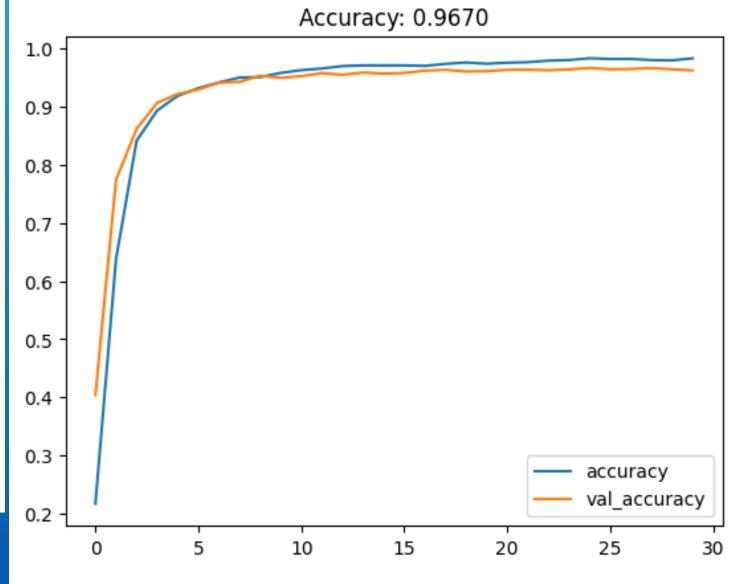
- Creation Figma Camille
- Creation Repo Git Selmane
- Veille Kaggle Camille

```
DefaultConv2D = partial(Conv2D, kernel_size=3, padding="same", activation="relu",
                        kernel_initializer="he_normal")
model = Sequential([
    DefaultConv2D(filters=64, kernel_size=7, input_shape=[28, 28, 1]),
    MaxPool2D(),
    DefaultConv2D(filters=128),
    DefaultConv2D(filters=128),
    MaxPool2D(),
   DefaultConv2D(filters=256),
    DefaultConv2D(filters=256),
    MaxPool2D(),
    Flatten(),
    Dense(units=128, activation="relu", kernel initializer="he normal"),
    Dense(units=64, activation="relu", kernel_initializer="he_normal"),
    Dense(units=10, activation="softmax")
])
```

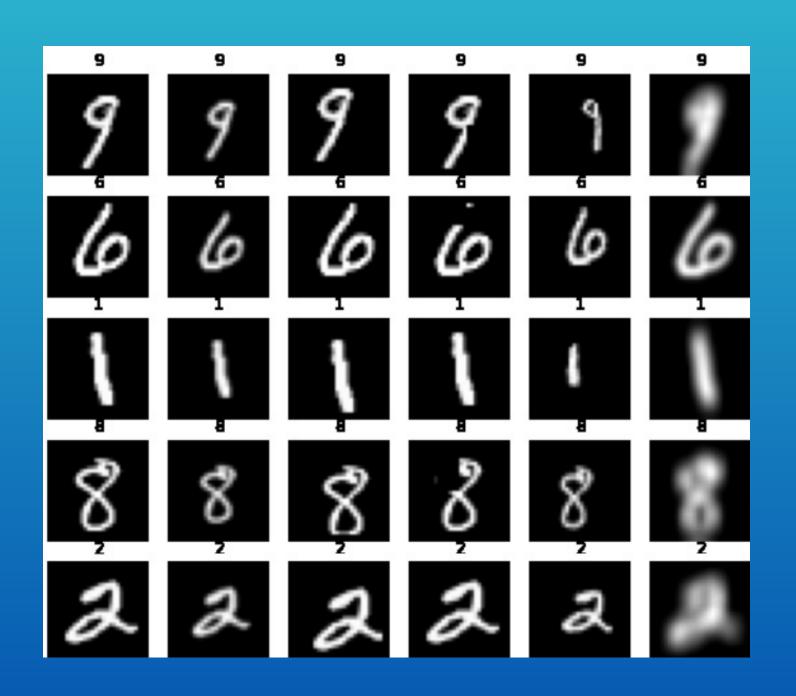
```
DefaultConv2D = partial(Conv2D, kernel_size=3, padding="same", activation="relu",
                        kernel_initializer="he_normal")
model = Sequential([
    DefaultConv2D(filters=64, kernel size=5, input shape=[28, 28, 1]),
    MaxPool2D(),
    DefaultConv2D(filters=128),
    MaxPool2D(),
    DefaultConv2D(filters=128),
    MaxPool2D(),
    Flatten(),
    Dense(units=128, activation="relu", kernel_initializer="he_normal"),
    Dropout(0.3),
    Dense(units=64, activation="relu", kernel_initializer="he_normal"),
    Dropout(0.3),
    Dense(units=10, activation="softmax")
```

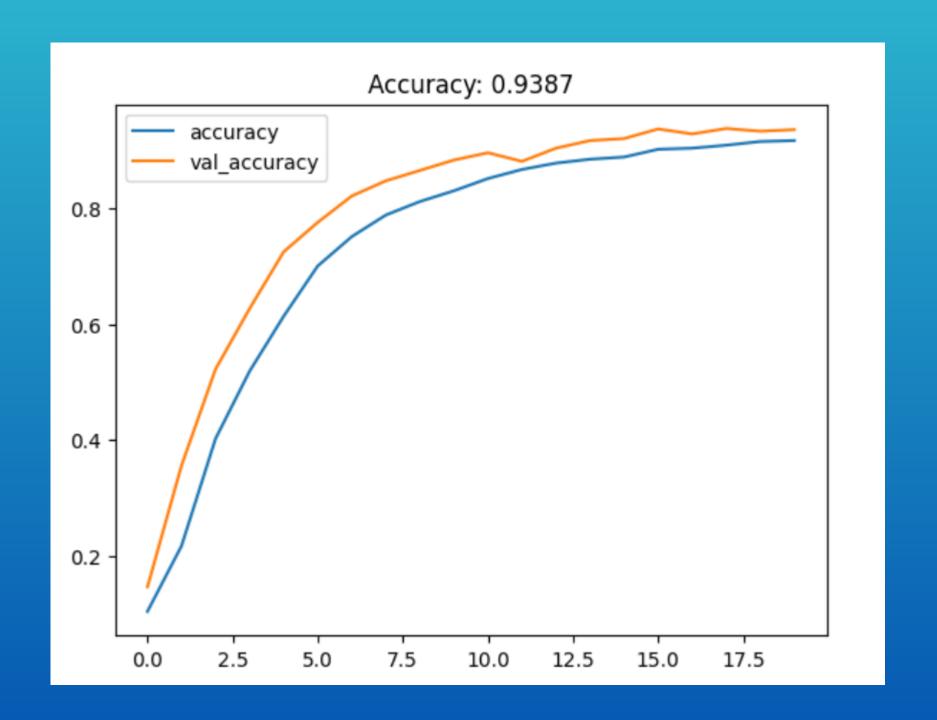
```
# model CNN
DefaultConv2D = partial(Conv2D, kernel size=3, padding="same", activation="relu",
                        kernel initializer="he normal")
model = Sequential([
    DefaultConv2D(filters=8, kernel_size=5, input_shape=(28, 28, 1)),
    MaxPool2D(),
    DefaultConv2D(filters=16),
    MaxPool2D(),
    DefaultConv2D(filters=32),
    MaxPool2D(),
    DefaultConv2D(filters=64),
    Flatten(),
    Dense(units=64, activation="relu", kernel_initializer="he_normal"),
    Dense(units=32, activation="relu", kernel_initializer="he_normal"),
    Dense(units=10, activation="softmax")
])
```



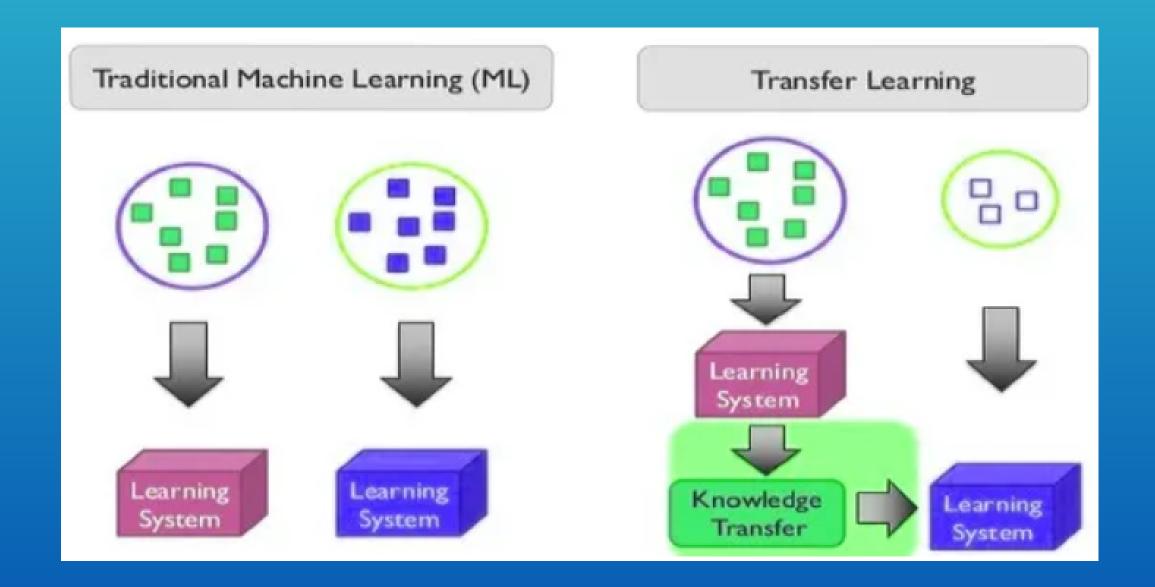


Data Augmentation





Perspective



Transfer learning

Merci