

## Entrenamiento Xception

Para el Fold 0: 10 épocas

```
SP/Tesis/Proyectos1/Code/bootstrapTests/bootstrap/bootstrap_folds_trained.py
----- Doing bootstrap for Xception
----- Doing for Fold: 0

----- Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9382

----- Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.944

----- Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.943

----- Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9377
```

```

----- Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 6s/step
Accuracy value for test images:0.9372

----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 32s 6s/step
Accuracy value for test images:0.9405

----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 35s 6s/step
Accuracy value for test images:0.9339

----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 31s 6s/step
Accuracy value for test images:0.9417

----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 45s 9s/step
Accuracy value for test images:0.9418

----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 6s/step
Accuracy value for test images:0.9306
95.0 confidence interval 93.13% and 94.38%

```

Para el Fold 1:

```
----- Doing for Fold: 1

----- Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9688

----- Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 26s 5s/step
Accuracy value for test images:0.9684

----- Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 25s 5s/step
Accuracy value for test images:0.9687

----- Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9757

----- Running for iteration 5 of 10
```

```
----- Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9691
```

```
----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 26s 5s/step
Accuracy value for test images:0.9682
```

```
----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 26s 5s/step
Accuracy value for test images:0.9712
```

```
----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 26s 5s/step
Accuracy value for test images:0.9768
```

```
----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.988
```

```
----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9827
95.0 confidence interval 96.82% and 98.68%
```

Para el Fold 2:

```
----- Doing for Fold: 2

----- Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.957

----- Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 26s 5s/step
Accuracy value for test images:0.9592

----- Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9743

----- Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.962
```

```
----- Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.9691

----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 6s/step
Accuracy value for test images:0.9568

----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 33s 7s/step
Accuracy value for test images:0.9586

----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9689

----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 5s/step
Accuracy value for test images:0.9621
```

```
----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.9652
95.0 confidence interval 95.68% and 97.31%
```

Para el Fold 3:

```
----- Doing for Fold: 3

----- Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9466

----- Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 26s 5s/step
Accuracy value for test images:0.9437

----- Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9428

----- Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9366
```

```
----- Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 31s 6s/step
Accuracy value for test images:0.9481
```

```
----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9447
```

```
----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9391
```

```
----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 6s/step
Accuracy value for test images:0.9475
```

```
----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 35s 6s/step
Accuracy value for test images:0.9463
```

```
----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9392
95.0 confidence interval 93.72% and 94.80%
```

Para el Fold 4:

```
----- Doing for Fold: 4

----- Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9689

----- Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 37s 7s/step
Accuracy value for test images:0.9608

----- Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 33s 6s/step
Accuracy value for test images:0.9733

----- Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 31s 6s/step
Accuracy value for test images:0.9558
```



```
----- Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 5s/step
Accuracy value for test images:0.9602
```

```
----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 5s/step
Accuracy value for test images:0.955
```

```
----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 33s 7s/step
Accuracy value for test images:0.9689
```

```
----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 40s 8s/step
Accuracy value for test images:0.9614
```

```
----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 44s 9s/step
Accuracy value for test images:0.9574
```

```
----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 44s 8s/step
Accuracy value for test images:0.9619
95.0 confidence interval 95.52% and 97.23%
```

Para el Fold 5:

```
----- Doing for Fold: 5

----- Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 37s 7s/step
Accuracy value for test images:0.9676

----- Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 32s 6s/step
Accuracy value for test images:0.9651

----- Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.9668

----- Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9707

----- Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 5s/step
Accuracy value for test images:0.9758
```

```
----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.9674

----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9663

----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 31s 6s/step
Accuracy value for test images:0.9657

----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 32s 6s/step
Accuracy value for test images:0.9681

----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.9638
95.0 confidence interval 96.41% and 97.47%
```

Para el Fold 6

```
-----          Doing for Fold: 6

-----    Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9583

-----    Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 32s 7s/step
Accuracy value for test images:0.9549

-----    Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 31s 6s/step
Accuracy value for test images:0.9512

-----    Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 5s/step
Accuracy value for test images:0.9509

-----    Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9482
```

```
----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 38s 8s/step
Accuracy value for test images:0.9485

----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9582

----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9471

----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9678

----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9514
95.0 confidence interval 94.73% and 96.57%
```

Para el Fold 7:

```
----- Doing for Fold: 7

----- Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9574

----- Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 34s 7s/step
Accuracy value for test images:0.9564

----- Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9542

----- Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9556

----- Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.9525
```

```
----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 37s 8s/step
Accuracy value for test images:0.9639

----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9545

----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9524

----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9526

----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 35s 7s/step
Accuracy value for test images:0.9621
95.0 confidence interval 95.24% and 96.35%
```

Para el Fold 8:

```
----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 6s/step
Accuracy value for test images:0.9548

----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 5s/step
Accuracy value for test images:0.9569

----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 26s 5s/step
Accuracy value for test images:0.9612

----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 6s/step
Accuracy value for test images:0.9568

----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 28s 5s/step
Accuracy value for test images:0.9681
95.0 confidence interval 95.34% and 96.78%
```

Para el Fold 9:



```
----- Doing for Fold: 9

----- Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 31s 6s/step
Accuracy value for test images:0.9772

----- Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 31s 6s/step
Accuracy value for test images:0.9748

----- Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 34s 7s/step
Accuracy value for test images:0.9753

----- Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.9757

----- Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9782
```

```
----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9774

----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 31s 6s/step
Accuracy value for test images:0.9746

----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 35s 7s/step
Accuracy value for test images:0.9784

----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 32s 6s/step
Accuracy value for test images:0.98

----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 32s 6s/step
Accuracy value for test images:0.9848
95.0 confidence interval 97.46% and 98.37%
Average for lower values: Fold: 9 -> 0.9541
Average for higher values: Fold: 9 -> 0.9679
95.0 Average confidence interval 95.41% and 96.79%
```

```
----- Doing for Fold: 8

----- Running for iteration 1 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 33s 6s/step
Accuracy value for test images:0.9669

----- Running for iteration 2 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 29s 5s/step
Accuracy value for test images:0.953

----- Running for iteration 3 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.9616

----- Running for iteration 4 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 30s 6s/step
Accuracy value for test images:0.9653

----- Running for iteration 5 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 35s 7s/step
Accuracy value for test images:0.9577
```

```
----- Running for iteration 6 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 27s 5s/step
Accuracy value for test images:0.9774

----- Running for iteration 7 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 31s 6s/step
Accuracy value for test images:0.9746

----- Running for iteration 8 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 35s 7s/step
Accuracy value for test images:0.9784

----- Running for iteration 9 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 32s 6s/step
Accuracy value for test images:0.98

----- Running for iteration 10 of 10
Size test data:156
Size test labels:156
Size filenames:156
Number of test images: 156
5/5 [=====] - 32s 6s/step
Accuracy value for test images:0.9848
95.0 confidence interval 97.46% and 98.37%
Average for lower values: Fold: 9 -> 0.9541
Average for higher values: Fold: 9 -> 0.9679
95.0 Average confidence interval 95.41% and 96.79%
```