Final Report

Introduction :

Report detailing the test results on the ID card front side model

The test has been carried out based on a sample of N=1809 ID pictures

Experience :

According to the data collected upon the test with the ML, we have:

*The number of pictures accepted by the ML and OCR is: 1088

*The number of pictures accepted by the ML and refused by OCR is: 288

*The number of pictures refused by the ML and accepted by OCR is: 247

*The number of pictures refused by both the ML and OCR is: 186

Let's assume that we have event A and B:

A : the ML accepts an ID card

B : the OCR fucntions properly

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A : the ML refuses an ID card

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B : the OCR doesn't funtion properly

For a sample of N=1089, we have:

P(A)= 0.7606412382531785 ~ 76%

P(B)= 0.7379767827529021 ~ 74%

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P(A)= 0.23935876174682147 ~ 24%

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p(B)= 0.2620232172470979 ~ 26%

The verification process within this test always starts with the ML and then the OCR scan:

B/A : The OCR functions properly knowing that the ML has accepted the ID card

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B/A : The OCR doesn't function properly even though the ML has accepted the ID card

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B/A : The OCR functions properly knowing that the ML refused the ID card

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B/A : The OCR doesn't function properly and knowing that the ML refused the ID card

Results :

By carrying out a probability calculation on N, I obtained these results:

P(B/A) = 0.6014372581536761 ~ 60%

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P(B/A) = 0.15920398009950248 ~ 16%

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P(B/A) = 0.13653952459922608 ~ 14%

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P(B/A) = 0.10281923714759536 ~ 10%