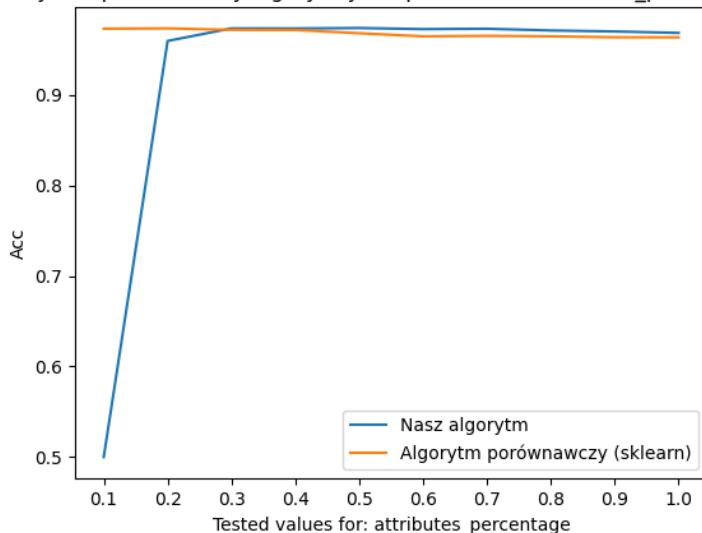
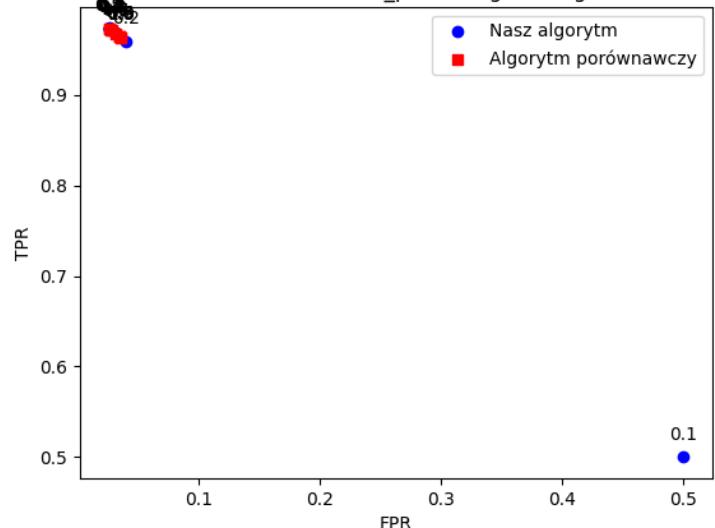


## 1.1.1 Wykres precyzji oraz wykres ROC dla zmiany parametru: attributes\_percentage

Wykres porównawczy algorytmy dla parametru: attributes\_percentage



ROC for attributes\_percentage change



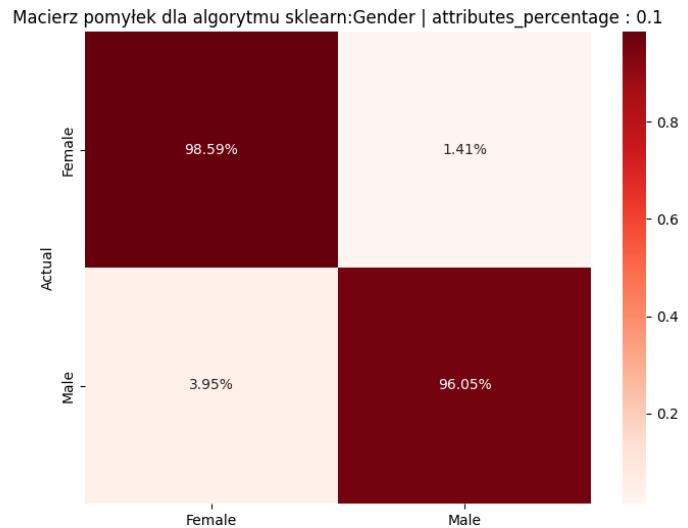
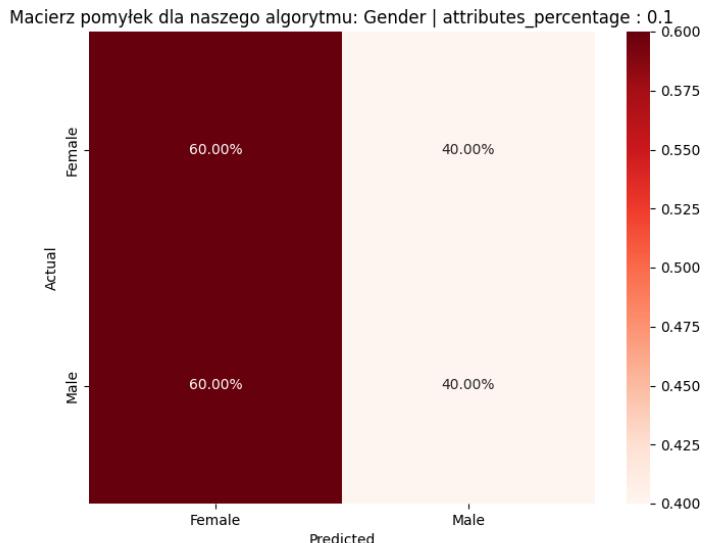
## 1.1.1 Tablica naszego algorytmu dla zmiany parametru: attributes\_percentage

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
0.1	2000,6000	2000,4000	2000,4000	2000,6000	0,5000	0,5000	0,5000	0,5000	<b>0,5000</b>	0,5000	0,0000	<b>0,5000</b>
0.2	3839,4000	161,6000	161,6000	3839,4000	0,9596	0,9596	0,9596	0,9596	0,0404	0,9596	0,9192	0,0404
0.3	3894,8000	106,2000	106,2000	3894,8000	0,9735	0,9735	0,9735	0,9735	0,0265	0,9735	0,9469	0,0265
0.4	3894,4000	106,6000	106,6000	3894,4000	0,9734	0,9734	0,9734	0,9734	0,0266	0,9734	0,9467	0,0266
0.5	3896,4000	104,6000	104,6000	3896,4000	<b>0,9739</b>	<b>0,9739</b>	<b>0,9739</b>	<b>0,9739</b>	0,0261	<b>0,9739</b>	<b>0,9477</b>	0,0261
0.6	3891,8000	109,2000	109,2000	3891,8000	0,9727	0,9727	0,9727	0,9727	0,0273	0,9727	0,9454	0,0273
0.7	3893,2000	107,8000	107,8000	3893,2000	0,9731	0,9731	0,9731	0,9731	0,0269	0,9731	0,9461	0,0269
0.8	3885,8000	115,2000	115,2000	3885,8000	0,9712	0,9712	0,9712	0,9712	0,0288	0,9712	0,9424	0,0288
0.9	3881,2000	119,8000	119,8000	3881,2000	0,9701	0,9701	0,9701	0,9701	0,0299	0,9701	0,9401	0,0299
1.0	3875,0000	126,0000	126,0000	3875,0000	0,9685	0,9685	0,9685	0,9685	0,0315	0,9685	0,9370	0,0315

## 1.1.1 Tablica porównawczego algorytmu dla zmiany parametru: attributes\_percentage

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
0.1	3893,8000	107,2000	107,2000	3893,8000	0,9732	0,9732	0,9732	0,9732	0,0268	0,9732	0,9464	0,0268
0.2	3895,0000	106,0000	106,0000	3895,0000	<b>0,9735</b>	<b>0,9735</b>	<b>0,9735</b>	<b>0,9735</b>	0,0265	<b>0,9735</b>	<b>0,9470</b>	0,0265
0.3	3888,6000	112,4000	112,4000	3888,6000	0,9719	0,9719	0,9719	0,9719	0,0281	0,9719	0,9438	0,0281
0.4	3887,8000	113,2000	113,2000	3887,8000	0,9717	0,9717	0,9717	0,9717	0,0283	0,9717	0,9434	0,0283
0.5	3873,4000	127,6000	127,6000	3873,4000	0,9681	0,9681	0,9681	0,9681	0,0319	0,9681	0,9362	0,0319
0.6	3859,8000	141,2000	141,2000	3859,8000	0,9647	0,9647	0,9647	0,9647	0,0353	0,9647	0,9294	0,0353
0.7	3861,6000	139,4000	139,4000	3861,6000	0,9652	0,9652	0,9652	0,9652	0,0348	0,9652	0,9303	0,0348
0.8	3859,6000	141,4000	141,4000	3859,6000	0,9647	0,9647	0,9647	0,9647	0,0353	0,9647	0,9293	0,0353
0.9	3855,6000	145,4000	145,4000	3855,6000	0,9637	0,9637	0,9637	0,9637	0,0363	0,9637	0,9273	0,0363
1.0	3855,4000	145,6000	145,6000	3855,4000	0,9636	0,9636	0,9636	0,9636	<b>0,0364</b>	0,9636	0,9272	<b>0,0364</b>

## 1.2.1 Porównanie confusion matrix dla attributes\_percentage = 0.1



## 1.2.1 Tablica naszego algorytmu dla attributes\_percentage = 0.1

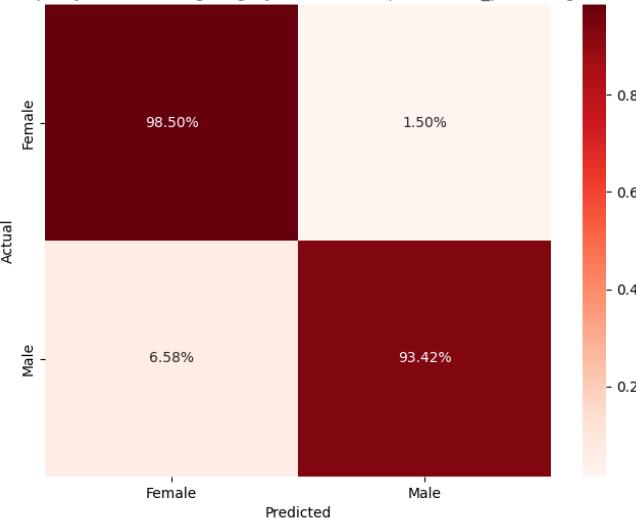
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1200,6000	800,4000	1200,0000	800,0000	<b>0,5000</b>	<b>0,6000</b>	<b>0,5001</b>	0,4000	<b>0,6000</b>	<b>0,5455</b>	-0,0000	<b>0,6000</b>
Male	800,0000	1200,0000	800,4000	1200,6000	<b>0,5000</b>	0,4000	0,4999	<b>0,6000</b>	0,4000	0,4444	-0,0000	0,4000
overall	2000,6000	2000,4000	2000,4000	2000,6000	<b>0,5000</b>	0,5000	0,5000	0,5000	0,5000	0,5000	<b>0,0000</b>	0,5000

## 1.2.1 Tablica porównawczego algorytmu dla attributes\_percentage = 0.1

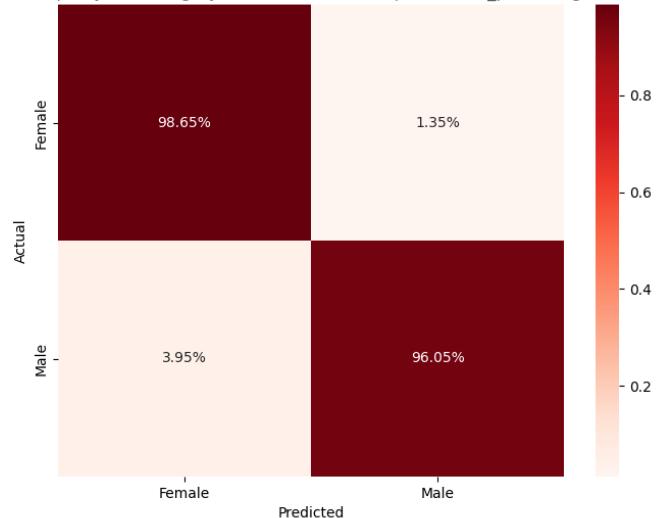
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1972,8000	28,2000	79,0000	1921,0000	<b>0,9732</b>	<b>0,9859</b>	0,9615	0,9605	<b>0,0395</b>	<b>0,9735</b>	<b>0,9467</b>	<b>0,0395</b>
Male	1921,0000	79,0000	28,2000	1972,8000	<b>0,9732</b>	0,9605	<b>0,9855</b>	<b>0,9859</b>	0,0141	0,9728	<b>0,9467</b>	0,0141
overall	3893,8000	107,2000	107,2000	3893,8000	<b>0,9732</b>	0,9732	0,9732	0,9732	0,0268	0,9732	0,9464	0,0268

### 1.3.1 Porównanie confusion matrix dla attributes\_percentage = 0.2

Macierz pomylek dla naszego algorytmu: Gender | attributes\_percentage : 0.2



Macierz pomylek dla algorytmu sklearn:Gender | attributes\_percentage : 0.2



### 1.3.1 Tablica naszego algorytmu dla attributes\_percentage = 0.2

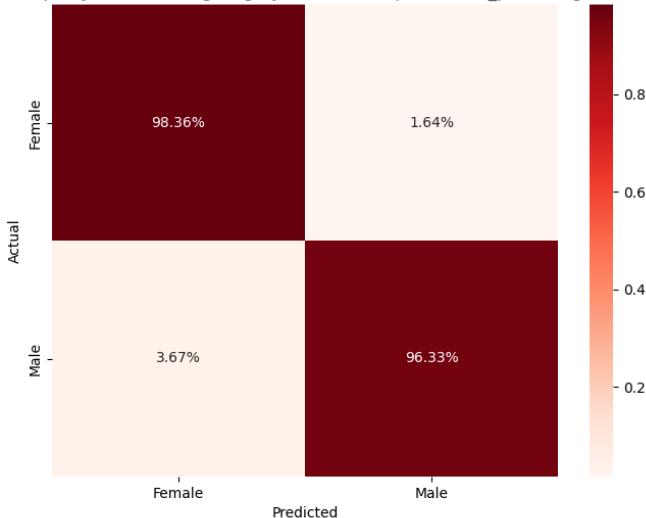
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1971,0000	30,0000	131,6000	1868,4000	<b>0,9596</b>	<b>0,9850</b>	0,9374	0,9342	<b>0,0658</b>	<b>0,9606</b>	<b>0,9204</b>	<b>0,0658</b>
Male	1868,4000	131,6000	30,0000	1971,0000	<b>0,9596</b>	0,9342	<b>0,9842</b>	<b>0,9850</b>	0,0150	0,9585	<b>0,9204</b>	0,0150
overall	3839,4000	161,6000	161,6000	3839,4000	<b>0,9596</b>	0,9596	0,9596	0,9596	0,0404	0,9596	0,9192	0,0404

### 1.3.1 Tablica porównawczego algorytmu dla attributes\_percentage = 0.2

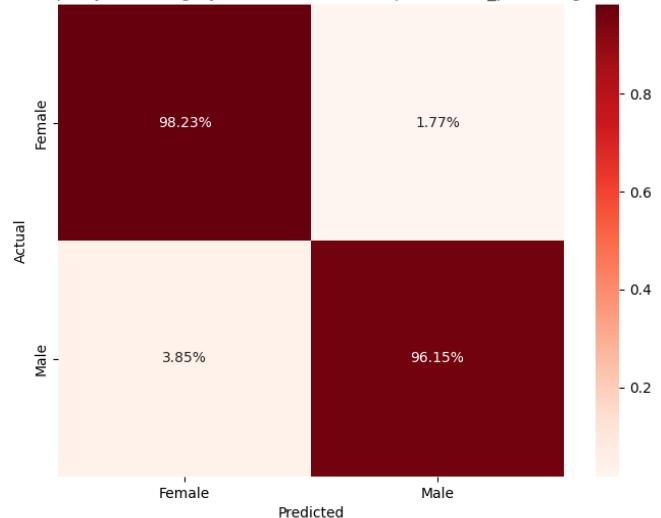
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1974,0000	27,0000	79,0000	1921,0000	<b>0,9735</b>	<b>0,9865</b>	0,9615	0,9605	<b>0,0395</b>	<b>0,9738</b>	<b>0,9473</b>	<b>0,0395</b>
Male	1921,0000	79,0000	27,0000	1974,0000	<b>0,9735</b>	0,9605	<b>0,9861</b>	<b>0,9865</b>	0,0135	0,9731	<b>0,9473</b>	0,0135
overall	3895,0000	106,0000	106,0000	3895,0000	<b>0,9735</b>	0,9735	0,9735	0,9735	0,0265	0,9735	0,9470	0,0265

## 1.4.1 Porównanie confusion matrix dla attributes\_percentage = 0.3

Macierz pomylek dla naszego algorytmu: Gender | attributes\_percentage : 0.3



Macierz pomylek dla algorytmu sklearn:Gender | attributes\_percentage : 0.3



## 1.4.1 Tablica naszego algorytmu dla attributes\_percentage = 0.3

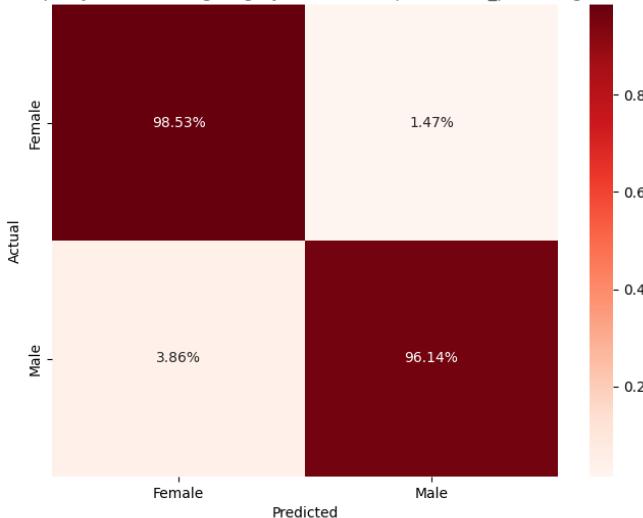
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1968,2000	32,8000	73,4000	1926,6000	<b>0,9735</b>	<b>0,9836</b>	0,9640	0,9633	<b>0,0367</b>	<b>0,9737</b>	<b>0,9471</b>	<b>0,0367</b>
Male	1926,6000	73,4000	32,8000	1968,2000	<b>0,9735</b>	0,9633	<b>0,9833</b>	<b>0,9836</b>	0,0164	0,9732	<b>0,9471</b>	0,0164
overall	3894,8000	106,2000	106,2000	3894,8000	<b>0,9735</b>	0,9735	0,9735	0,9735	0,0265	0,9735	0,9469	0,0265

## 1.4.1 Tablica porównawczego algorytmu dla attributes\_percentage = 0.3

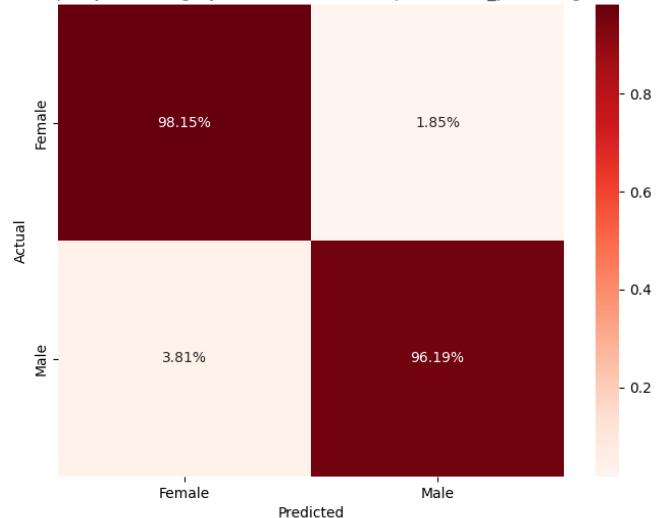
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1965,6000	35,4000	77,0000	1923,0000	<b>0,9719</b>	<b>0,9823</b>	0,9623	0,9615	<b>0,0385</b>	<b>0,9722</b>	<b>0,9440</b>	<b>0,0385</b>
Male	1923,0000	77,0000	35,4000	1965,6000	<b>0,9719</b>	0,9615	<b>0,9819</b>	<b>0,9823</b>	0,0177	0,9716	<b>0,9440</b>	0,0177
overall	3888,6000	112,4000	112,4000	3888,6000	<b>0,9719</b>	0,9719	0,9719	0,9719	0,0281	0,9719	0,9438	0,0281

### 1.5.1 Porównanie confusion matrix dla attributes\_percentage = 0.4

Macierz pomylek dla naszego algorytmu: Gender | attributes\_percentage : 0.4



Macierz pomylek dla algorytmu sklearn:Gender | attributes\_percentage : 0.4



### 1.5.1 Tablica naszego algorytmu dla attributes\_percentage = 0.4

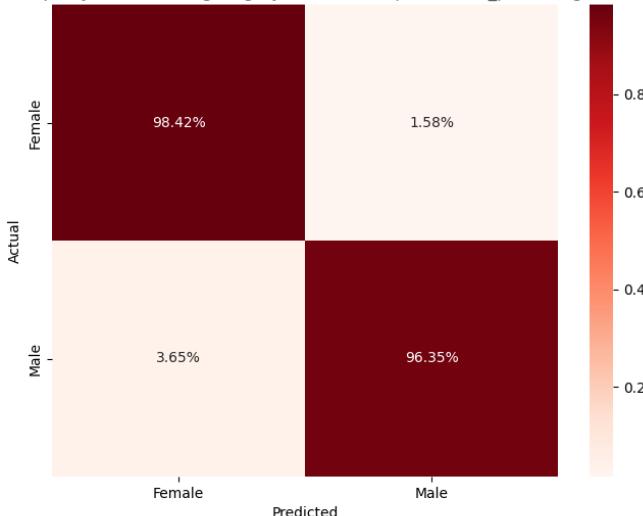
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1971,6000	29,4000	77,2000	1922,8000	<b>0,9734</b>	<b>0,9853</b>	0,9623	0,9614	<b>0,0386</b>	<b>0,9737</b>	<b>0,9470</b>	<b>0,0386</b>
Male	1922,8000	77,2000	29,4000	1971,6000	<b>0,9734</b>	0,9614	<b>0,9849</b>	<b>0,9853</b>	0,0147	0,9730	<b>0,9470</b>	0,0147
overall	3894,4000	106,6000	106,6000	3894,4000	<b>0,9734</b>	0,9734	0,9734	0,9734	0,0266	0,9734	0,9467	0,0266

### 1.5.1 Tablica porównawczego algorytmu dla attributes\_percentage = 0.4

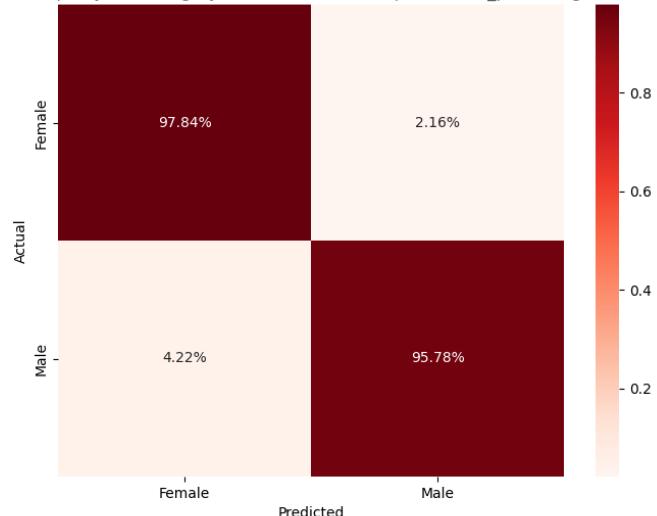
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1964,0000	37,0000	76,2000	1923,8000	<b>0,9717</b>	<b>0,9815</b>	0,9627	0,9619	<b>0,0381</b>	<b>0,9720</b>	<b>0,9436</b>	<b>0,0381</b>
Male	1923,8000	76,2000	37,0000	1964,0000	<b>0,9717</b>	0,9619	<b>0,9811</b>	<b>0,9815</b>	0,0185	0,9714	<b>0,9436</b>	0,0185
overall	3887,8000	113,2000	113,2000	3887,8000	<b>0,9717</b>	0,9717	0,9717	0,9717	0,0283	0,9717	0,9434	0,0283

## 1.6.1 Porównanie confusion matrix dla attributes\_percentage = 0.5

Macierz pomylek dla naszego algorytmu: Gender | attributes\_percentage : 0.5



Macierz pomylek dla algorytmu sklearn:Gender | attributes\_percentage : 0.5



## 1.6.1 Tablica naszego algorytmu dla attributes\_percentage = 0.5

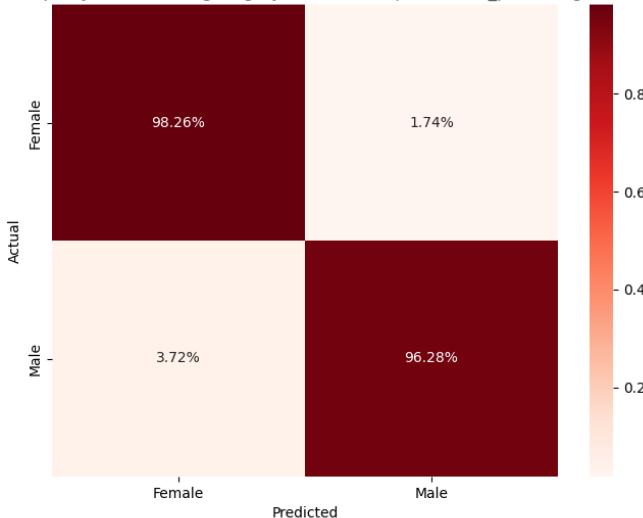
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1969,4000	31,6000	73,0000	1927,0000	<b>0,9739</b>	<b>0,9842</b>	0,9643	0,9635	<b>0,0365</b>	<b>0,9741</b>	<b>0,9479</b>	<b>0,0365</b>
Male	1927,0000	73,0000	31,6000	1969,4000	<b>0,9739</b>	0,9635	<b>0,9839</b>	<b>0,9842</b>	0,0158	0,9736	<b>0,9479</b>	0,0158
overall	3896,4000	104,6000	104,6000	3896,4000	<b>0,9739</b>	0,9739	0,9739	0,9739	0,0261	0,9739	0,9477	0,0261

## 1.6.1 Tablica porównawczego algorytmu dla attributes\_percentage = 0.5

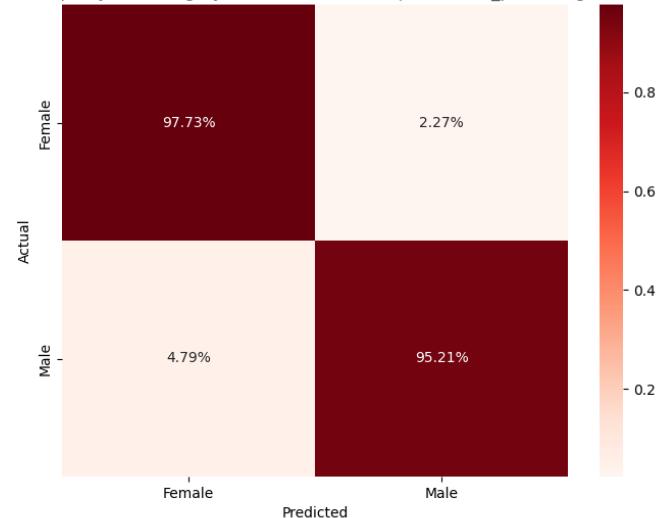
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1957,8000	43,2000	84,4000	1915,6000	<b>0,9681</b>	<b>0,9784</b>	0,9587	0,9578	<b>0,0422</b>	<b>0,9684</b>	<b>0,9364</b>	<b>0,0422</b>
Male	1915,6000	84,4000	43,2000	1957,8000	<b>0,9681</b>	0,9578	<b>0,9779</b>	<b>0,9784</b>	0,0216	0,9677	<b>0,9364</b>	0,0216
overall	3873,4000	127,6000	127,6000	3873,4000	<b>0,9681</b>	0,9681	0,9681	0,9681	0,0319	0,9681	0,9362	0,0319

## 1.7.1 Porównanie confusion matrix dla attributes\_percentage = 0.6

Macierz pomylek dla naszego algorytmu: Gender | attributes\_percentage : 0.6



Macierz pomylek dla algorytmu sklearn:Gender | attributes\_percentage : 0.6



## 1.7.1 Tablica naszego algorytmu dla attributes\_percentage = 0.6

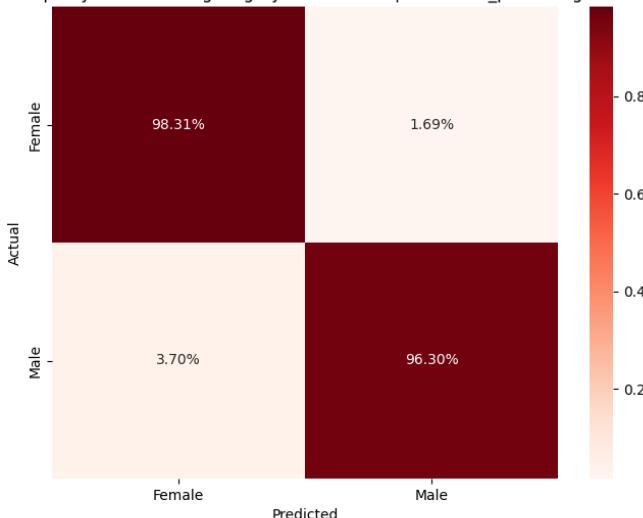
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1966,2000	34,8000	74,4000	1925,6000	<b>0,9727</b>	<b>0,9826</b>	0,9635	0,9628	<b>0,0372</b>	<b>0,9730</b>	<b>0,9456</b>	<b>0,0372</b>
Male	1925,6000	74,4000	34,8000	1966,2000	<b>0,9727</b>	0,9628	<b>0,9822</b>	<b>0,9826</b>	0,0174	0,9724	<b>0,9456</b>	0,0174
overall	3891,8000	109,2000	109,2000	3891,8000	<b>0,9727</b>	0,9727	0,9727	0,9727	0,0273	0,9727	0,9454	0,0273

## 1.7.1 Tablica porównawczego algorytmu dla attributes\_percentage = 0.6

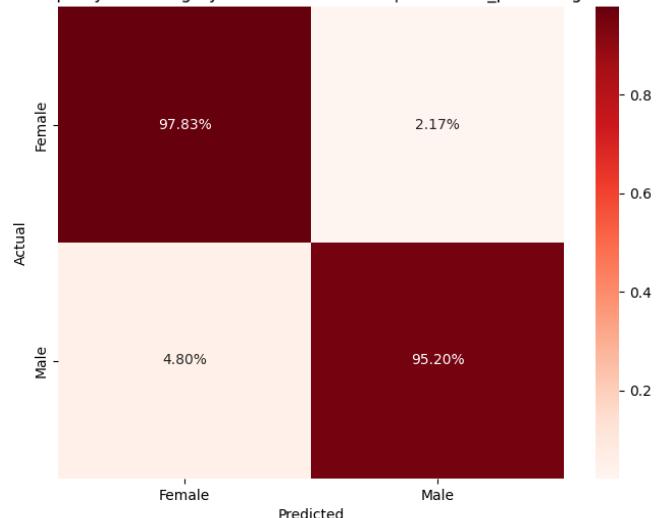
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1955,6000	45,4000	95,8000	1904,2000	<b>0,9647</b>	<b>0,9773</b>	0,9533	0,9521	<b>0,0479</b>	<b>0,9652</b>	<b>0,9297</b>	<b>0,0479</b>
Male	1904,2000	95,8000	45,4000	1955,6000	<b>0,9647</b>	0,9521	<b>0,9767</b>	<b>0,9773</b>	0,0227	0,9642	<b>0,9297</b>	0,0227
overall	3859,8000	141,2000	141,2000	3859,8000	<b>0,9647</b>	0,9647	0,9647	0,9647	0,0353	0,9647	0,9294	0,0353

### 1.8.1 Porównanie confusion matrix dla attributes\_percentage = 0.7

Macierz pomylek dla naszego algorytmu: Gender | attributes\_percentage : 0.7



Macierz pomylek dla algorytmu sklearn:Gender | attributes\_percentage : 0.7



### 1.8.1 Tablica naszego algorytmu dla attributes\_percentage = 0.7

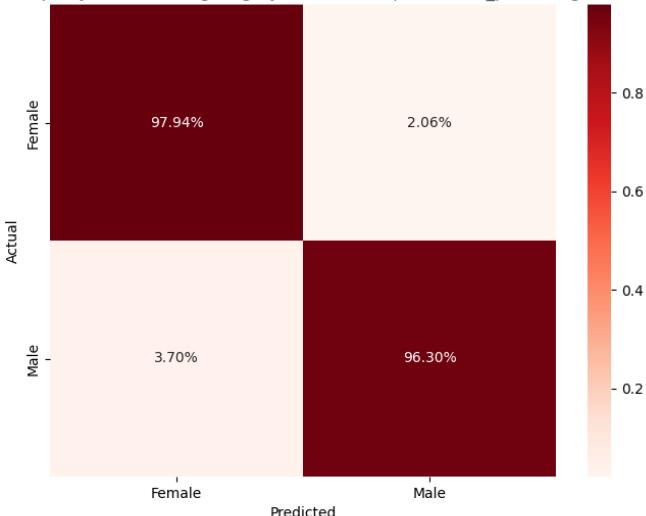
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1967,2000	33,8000	74,0000	1926,0000	<b>0,9731</b>	<b>0,9831</b>	0,9637	0,9630	<b>0,0370</b>	<b>0,9733</b>	<b>0,9463</b>	<b>0,0370</b>
Male	1926,0000	74,0000	33,8000	1967,2000	<b>0,9731</b>	0,9630	<b>0,9828</b>	<b>0,9831</b>	0,0169	0,9728	<b>0,9463</b>	0,0169
overall	3893,2000	107,8000	107,8000	3893,2000	<b>0,9731</b>	0,9731	0,9731	0,9731	0,0269	0,9731	0,9461	0,0269

### 1.8.1 Tablica porównawczego algorytmu dla attributes\_percentage = 0.7

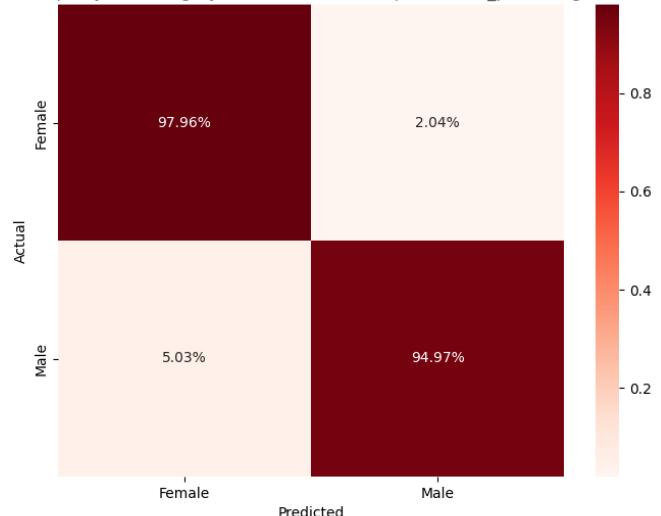
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1957,6000	43,4000	96,0000	1904,0000	<b>0,9652</b>	<b>0,9783</b>	0,9533	0,9520	<b>0,0480</b>	<b>0,9656</b>	<b>0,9306</b>	<b>0,0480</b>
Male	1904,0000	96,0000	43,4000	1957,6000	<b>0,9652</b>	0,9520	<b>0,9777</b>	<b>0,9783</b>	0,0217	0,9647	<b>0,9306</b>	0,0217
overall	3861,6000	139,4000	139,4000	3861,6000	<b>0,9652</b>	0,9652	0,9652	0,9652	0,0348	0,9652	0,9303	0,0348

## 1.9.1 Porównanie confusion matrix dla attributes\_percentage = 0.8

Macierz pomylek dla naszego algorytmu: Gender | attributes\_percentage : 0.8



Macierz pomylek dla algorytmu sklearn:Gender | attributes\_percentage : 0.8



## 1.9.1 Tablica naszego algorytmu dla attributes\_percentage = 0.8

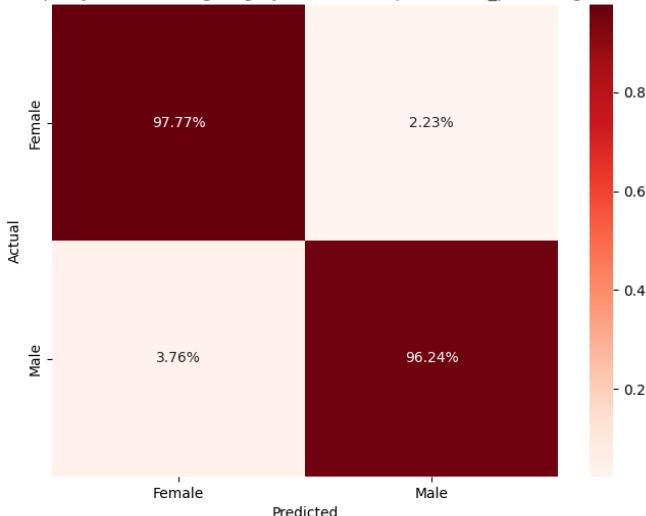
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,8000	41,2000	74,0000	1926,0000	<b>0,9712</b>	<b>0,9794</b>	0,9636	0,9630	<b>0,0370</b>	<b>0,9714</b>	<b>0,9425</b>	<b>0,0370</b>
Male	1926,0000	74,0000	41,2000	1959,8000	<b>0,9712</b>	0,9630	<b>0,9791</b>	<b>0,9794</b>	0,0206	0,9710	<b>0,9425</b>	0,0206
overall	3885,8000	115,2000	115,2000	3885,8000	<b>0,9712</b>	0,9712	0,9712	0,9712	0,0288	0,9712	0,9424	0,0288

## 1.9.1 Tablica porównawczego algorytmu dla attributes\_percentage = 0.8

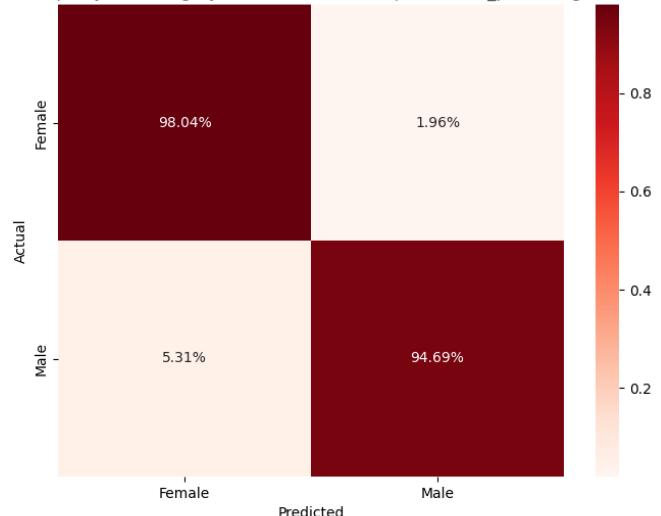
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1960,2000	40,8000	100,6000	1899,4000	<b>0,9647</b>	<b>0,9796</b>	0,9512	0,9497	<b>0,0503</b>	<b>0,9652</b>	<b>0,9297</b>	<b>0,0503</b>
Male	1899,4000	100,6000	40,8000	1960,2000	<b>0,9647</b>	0,9497	<b>0,9790</b>	<b>0,9796</b>	0,0204	0,9641	<b>0,9297</b>	0,0204
overall	3859,6000	141,4000	141,4000	3859,6000	<b>0,9647</b>	0,9647	0,9647	0,9647	0,0353	0,9647	0,9293	0,0353

## 1.10.1 Porównanie confusion matrix dla attributes\_percentage = 0.9

Macierz pomylek dla naszego algorytmu: Gender | attributes\_percentage : 0.9



Macierz pomylek dla algorytmu sklearn:Gender | attributes\_percentage : 0.9



## 1.10.1 Tablica naszego algorytmu dla attributes\_percentage = 0.9

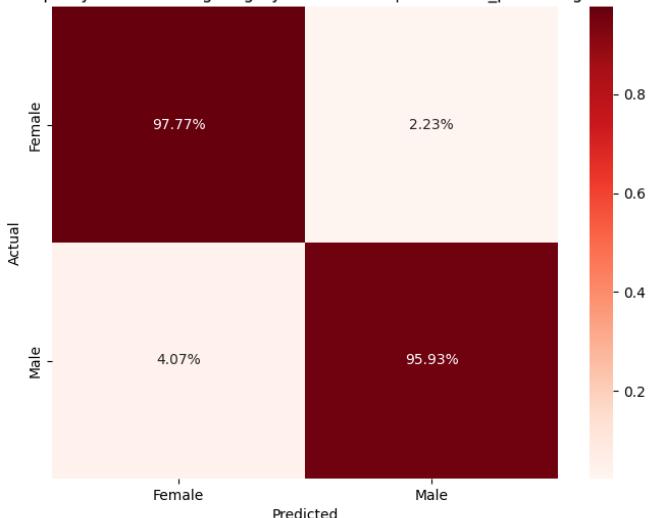
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,4000	44,6000	75,2000	1924,8000	<b>0,9701</b>	<b>0,9777</b>	0,9630	0,9624	<b>0,0376</b>	<b>0,9703</b>	<b>0,9402</b>	<b>0,0376</b>
Male	1924,8000	75,2000	44,6000	1956,4000	<b>0,9701</b>	0,9624	<b>0,9774</b>	<b>0,9777</b>	0,0223	0,9698	<b>0,9402</b>	0,0223
overall	3881,2000	119,8000	119,8000	3881,2000	<b>0,9701</b>	0,9701	0,9701	0,9701	0,0299	0,9701	0,9401	0,0299

## 1.10.1 Tablica porównawczego algorytmu dla attributes\_percentage = 0.9

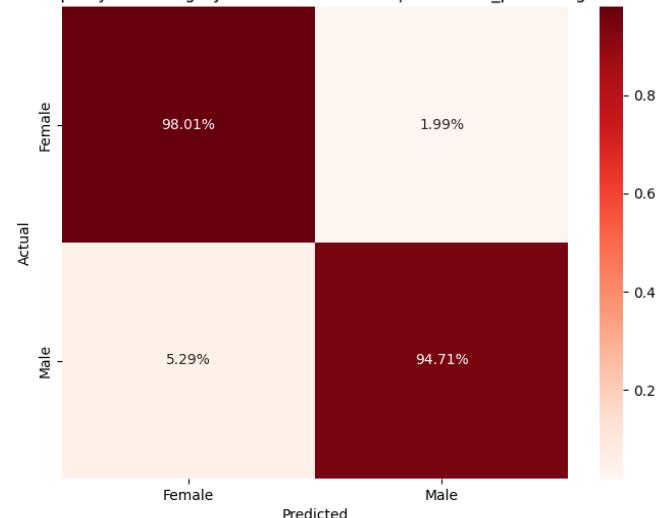
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1961,8000	39,2000	106,2000	1893,8000	<b>0,9637</b>	<b>0,9804</b>	0,9486	0,9469	<b>0,0531</b>	<b>0,9642</b>	<b>0,9278</b>	<b>0,0531</b>
Male	1893,8000	106,2000	39,2000	1961,8000	<b>0,9637</b>	0,9469	<b>0,9797</b>	<b>0,9804</b>	0,0196	0,9630	<b>0,9278</b>	0,0196
overall	3855,6000	145,4000	145,4000	3855,6000	<b>0,9637</b>	0,9637	0,9637	0,9637	0,0363	0,9637	0,9273	0,0363

## 1.11.1 Porównanie confusion matrix dla attributes\_percentage = 1.0

Macierz pomylek dla naszego algorytmu: Gender | attributes\_percentage : 1.0



Macierz pomylek dla algorytmu sklearn:Gender | attributes\_percentage : 1.0



## 1.11.1 Tablica naszego algorytmu dla attributes\_percentage = 1.0

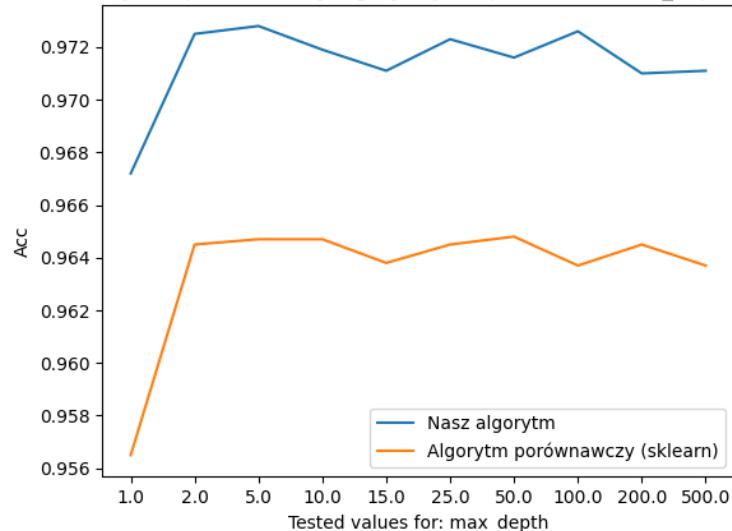
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,4000	44,6000	81,4000	1918,6000	<b>0,9685</b>	<b>0,9777</b>	0,9601	0,9593	<b>0,0407</b>	<b>0,9688</b>	<b>0,9372</b>	<b>0,0407</b>
Male	1918,6000	81,4000	44,6000	1956,4000	<b>0,9685</b>	0,9593	<b>0,9773</b>	<b>0,9777</b>	0,0223	0,9682	<b>0,9372</b>	0,0223
overall	3875,0000	126,0000	126,0000	3875,0000	<b>0,9685</b>	0,9685	0,9685	0,9685	0,0315	0,9685	0,9370	0,0315

## 1.11.1 Tablica porównawczego algorytmu dla attributes\_percentage = 1.0

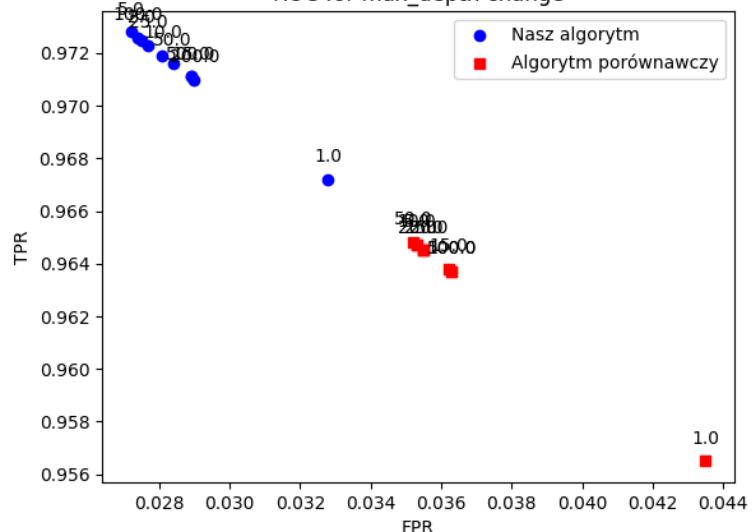
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1961,2000	39,8000	105,8000	1894,2000	<b>0,9636</b>	<b>0,9801</b>	0,9488	0,9471	<b>0,0529</b>	<b>0,9642</b>	<b>0,9277</b>	<b>0,0529</b>
Male	1894,2000	105,8000	39,8000	1961,2000	<b>0,9636</b>	0,9471	<b>0,9794</b>	<b>0,9801</b>	0,0199	0,9630	<b>0,9277</b>	0,0199
overall	3855,4000	145,6000	145,6000	3855,4000	<b>0,9636</b>	0,9636	0,9636	0,9636	0,0364	0,9636	0,9272	0,0364

## 2.1.1 Wykres precyzji oraz wykres ROC dla zmiany parametru: max\_depth

Wykres porównawczy algorytmy dla parametru: max\_depth



ROC for max\_depth change



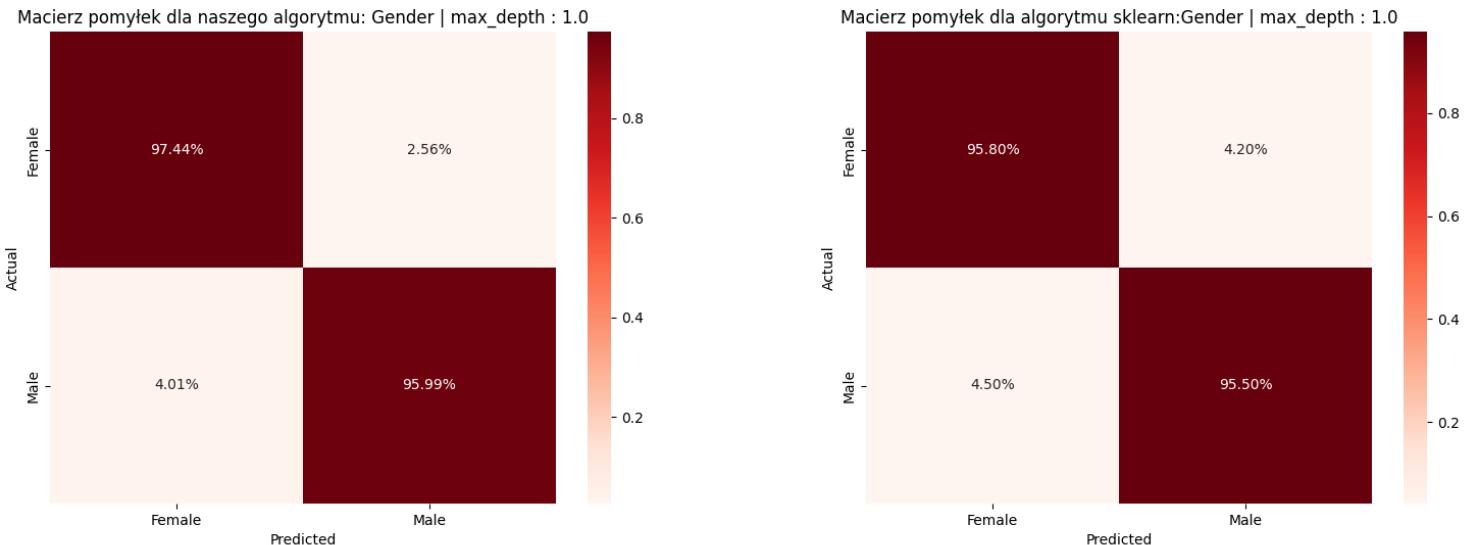
## 2.1.1 Tablica naszego algorytmu dla zmiany parametru: max\_depth

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
1.0	3869,6000	131,4000	131,4000	3869,6000	0,9672	0,9672	0,9672	0,9672	<b>0,0328</b>	0,9672	0,9343	<b>0,0328</b>
2.0	3890,8000	110,2000	110,2000	3890,8000	0,9725	0,9725	0,9725	0,9725	0,0275	0,9725	0,9449	0,0275
5.0	3892,2000	108,8000	108,8000	3892,2000	<b>0,9728</b>	<b>0,9728</b>	<b>0,9728</b>	<b>0,9728</b>	0,0272	<b>0,9728</b>	<b>0,9456</b>	0,0272
10.0	3888,6000	112,4000	112,4000	3888,6000	0,9719	0,9719	0,9719	0,9719	0,0281	0,9719	0,9438	0,0281
15.0	3885,4000	115,6000	115,6000	3885,4000	0,9711	0,9711	0,9711	0,9711	0,0289	0,9711	0,9422	0,0289
25.0	3890,2000	110,8000	110,8000	3890,2000	0,9723	0,9723	0,9723	0,9723	0,0277	0,9723	0,9446	0,0277
50.0	3887,4000	113,6000	113,6000	3887,4000	0,9716	0,9716	0,9716	0,9716	0,0284	0,9716	0,9432	0,0284
100.0	3891,2000	109,8000	109,8000	3891,2000	0,9726	0,9726	0,9726	0,9726	0,0274	0,9726	0,9451	0,0274
200.0	3884,8000	116,2000	116,2000	3884,8000	0,9710	0,9710	0,9710	0,9710	0,0290	0,9710	0,9419	0,0290
500.0	3885,4000	115,6000	115,6000	3885,4000	0,9711	0,9711	0,9711	0,9711	0,0289	0,9711	0,9422	0,0289

## 2.1.1 Tablica porównawczego algorytmu dla zmiany parametru: max\_depth

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
1.0	3827,0000	174,0000	174,0000	3827,0000	0,9565	0,9565	0,9565	0,9565	<b>0,0435</b>	0,9565	0,9130	<b>0,0435</b>
2.0	3858,8000	142,2000	142,2000	3858,8000	0,9645	0,9645	0,9645	0,9645	0,0355	0,9645	0,9289	0,0355
5.0	3859,8000	141,2000	141,2000	3859,8000	0,9647	0,9647	0,9647	0,9647	0,0353	0,9647	0,9294	0,0353
10.0	3859,6000	141,4000	141,4000	3859,6000	0,9647	0,9647	0,9647	0,9647	0,0353	0,9647	0,9293	0,0353
15.0	3856,2000	144,8000	144,8000	3856,2000	0,9638	0,9638	0,9638	0,9638	0,0362	0,9638	0,9276	0,0362
25.0	3859,0000	142,0000	142,0000	3859,0000	0,9645	0,9645	0,9645	0,9645	0,0355	0,9645	0,9290	0,0355
50.0	3860,0000	141,0000	141,0000	3860,0000	<b>0,9648</b>	<b>0,9648</b>	<b>0,9648</b>	<b>0,9648</b>	0,0352	<b>0,9648</b>	<b>0,9295</b>	0,0352
100.0	3855,8000	145,2000	145,2000	3855,8000	0,9637	0,9637	0,9637	0,9637	0,0363	0,9637	0,9274	0,0363
200.0	3858,8000	142,2000	142,2000	3858,8000	0,9645	0,9645	0,9645	0,9645	0,0355	0,9645	0,9289	0,0355
500.0	3855,6000	145,4000	145,4000	3855,6000	0,9637	0,9637	0,9637	0,9637	0,0363	0,9637	0,9273	0,0363

## 2.2.1 Porównanie confusion matrix dla max\_depth = 1.0



## 2.2.1 Tablica naszego algorytmu dla max\_depth = 1.0

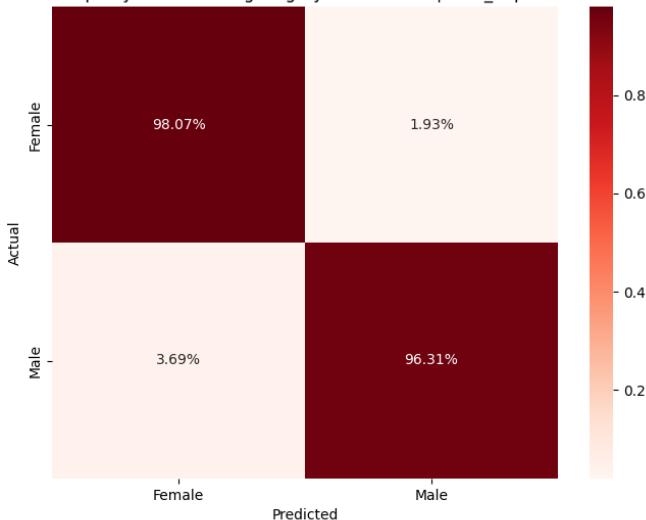
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1949,8000	51,2000	80,2000	1919,8000	<b>0,9672</b>	<b>0,9744</b>	0,9605	0,9599	<b>0,0401</b>	<b>0,9674</b>	<b>0,9344</b>	<b>0,0401</b>
Male	1919,8000	80,2000	51,2000	1949,8000	<b>0,9672</b>	0,9599	<b>0,9740</b>	<b>0,9744</b>	0,0256	0,9669	<b>0,9344</b>	0,0256
overall	3869,6000	131,4000	131,4000	3869,6000	<b>0,9672</b>	0,9672	0,9672	0,9672	0,0328	0,9672	0,9343	0,0328

## 2.2.1 Tablica porównawczego algorytmu dla max\_depth = 1.0

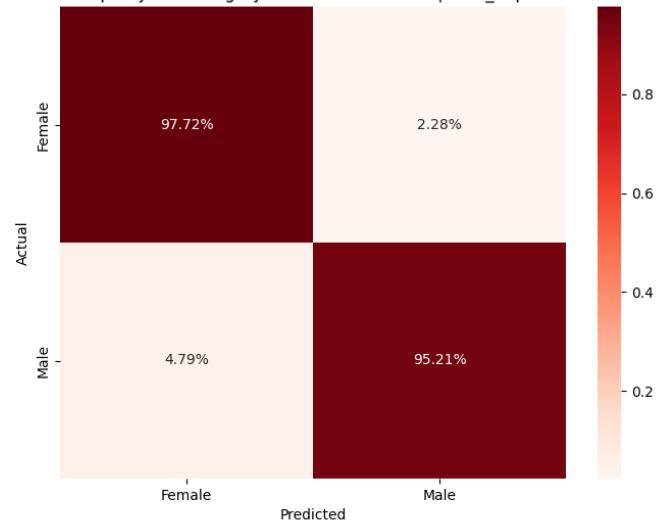
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1917,0000	84,0000	90,0000	1910,0000	<b>0,9565</b>	<b>0,9580</b>	0,9552	0,9550	<b>0,0450</b>	<b>0,9566</b>	<b>0,9130</b>	<b>0,0450</b>
Male	1910,0000	90,0000	84,0000	1917,0000	<b>0,9565</b>	0,9550	<b>0,9579</b>	<b>0,9580</b>	0,0420	0,9564	<b>0,9130</b>	0,0420
overall	3827,0000	174,0000	174,0000	3827,0000	<b>0,9565</b>	0,9565	0,9565	0,9565	0,0435	0,9565	<b>0,9130</b>	0,0435

### 2.3.1 Porównanie confusion matrix dla max\_depth = 10.0

Macierz pomylek dla naszego algorytmu: Gender | max\_depth : 10.0



Macierz pomylek dla algorytmu sklearn:Gender | max\_depth : 10.0



### 2.3.1 Tablica naszego algorytmu dla max\_depth = 10.0

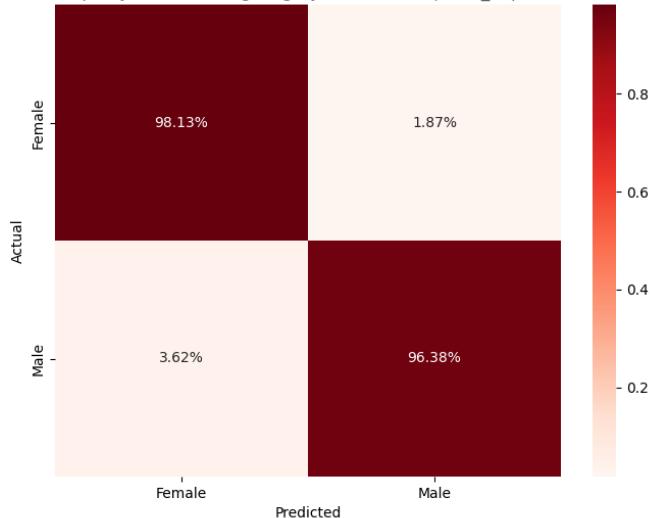
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1962,4000	38,6000	73,8000	1926,2000	<b>0,9719</b>	<b>0,9807</b>	0,9638	0,9631	<b>0,0369</b>	<b>0,9722</b>	<b>0,9440</b>	<b>0,0369</b>
Male	1926,2000	73,8000	38,6000	1962,4000	<b>0,9719</b>	0,9631	<b>0,9804</b>	<b>0,9807</b>	0,0193	0,9717	<b>0,9440</b>	0,0193
overall	3888,6000	112,4000	112,4000	3888,6000	<b>0,9719</b>	0,9719	0,9719	0,9719	0,0281	0,9719	0,9438	0,0281

### 2.3.1 Tablica porównawczego algorytmu dla max\_depth = 10.0

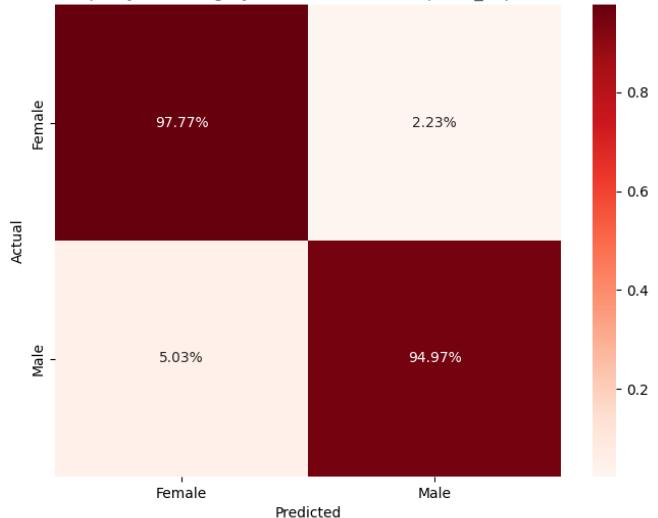
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1955,4000	45,6000	95,8000	1904,2000	<b>0,9647</b>	<b>0,9772</b>	0,9533	0,9521	<b>0,0479</b>	<b>0,9651</b>	<b>0,9296</b>	<b>0,0479</b>
Male	1904,2000	95,8000	45,6000	1955,4000	<b>0,9647</b>	0,9521	<b>0,9766</b>	<b>0,9772</b>	0,0228	0,9642	<b>0,9296</b>	0,0228
overall	3859,6000	141,4000	141,4000	3859,6000	<b>0,9647</b>	0,9647	0,9647	0,9647	0,0353	0,9647	0,9293	0,0353

## 2.4.1 Porównanie confusion matrix dla max\_depth = 100.0

Macierz pomyłek dla naszego algorytmu: Gender | max\_depth : 100.0



Macierz pomyłek dla algorytmu sklearn:Gender | max\_depth : 100.0



## 2.4.1 Tablica naszego algorytmu dla max\_depth = 100.0

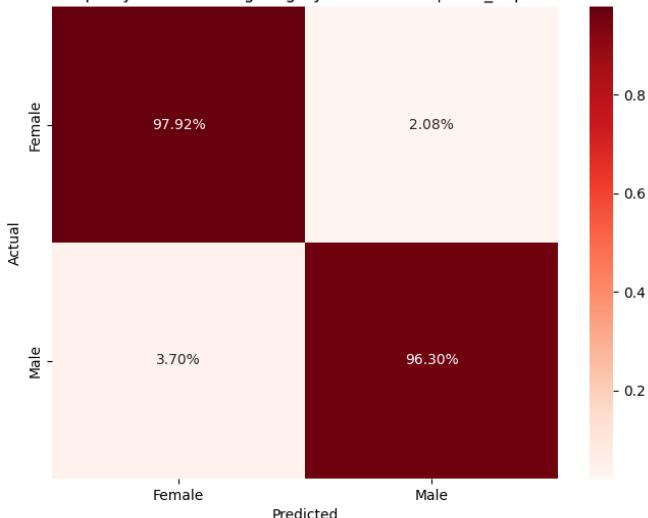
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1963,6000	37,4000	72,4000	1927,6000	<b>0,9726</b>	<b>0,9813</b>	0,9644	0,9638	<b>0,0362</b>	<b>0,9728</b>	<b>0,9453</b>	<b>0,0362</b>
Male	1927,6000	72,4000	37,4000	1963,6000	<b>0,9726</b>	0,9638	<b>0,9810</b>	<b>0,9813</b>	0,0187	0,9723	<b>0,9453</b>	0,0187
overall	3891,2000	109,8000	109,8000	3891,2000	<b>0,9726</b>	0,9726	0,9726	0,9726	0,0274	0,9726	0,9451	0,0274

## 2.4.1 Tablica porównawczego algorytmu dla max\_depth = 100.0

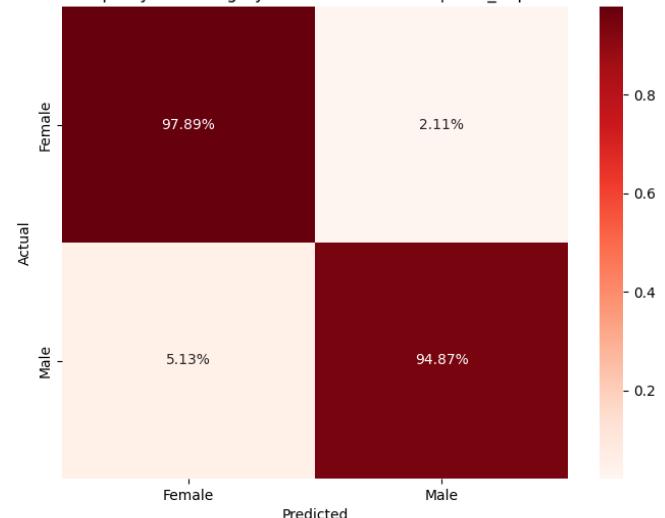
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,4000	44,6000	100,6000	1899,4000	<b>0,9637</b>	<b>0,9777</b>	0,9511	0,9497	<b>0,0503</b>	<b>0,9642</b>	<b>0,9278</b>	<b>0,0503</b>
Male	1899,4000	100,6000	44,6000	1956,4000	<b>0,9637</b>	0,9497	<b>0,9771</b>	<b>0,9777</b>	0,0223	0,9632	<b>0,9278</b>	0,0223
overall	3855,8000	145,2000	145,2000	3855,8000	<b>0,9637</b>	0,9637	0,9637	0,9637	0,0363	0,9637	0,9274	0,0363

## 2.5.1 Porównanie confusion matrix dla max\_depth = 15.0

Macierz pomylek dla naszego algorytmu: Gender | max\_depth : 15.0



Macierz pomylek dla algorytmu sklearn:Gender | max\_depth : 15.0



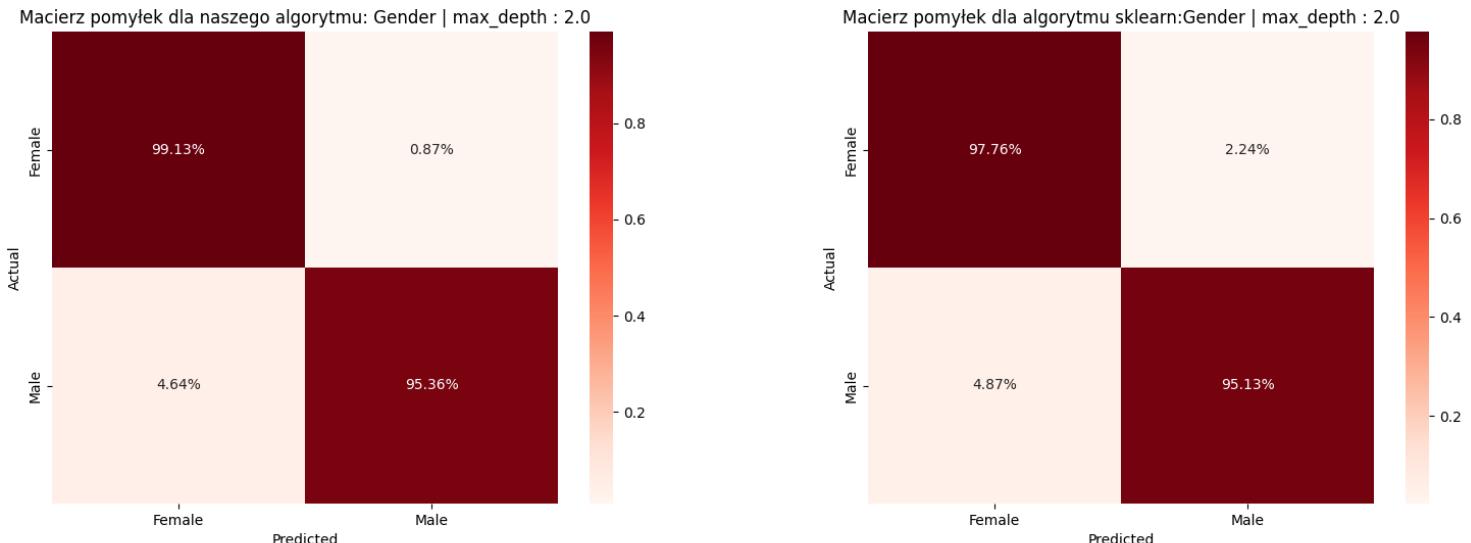
## 2.5.1 Tablica naszego algorytmu dla max\_depth = 15.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,4000	41,6000	74,0000	1926,0000	<b>0,9711</b>	<b>0,9792</b>	0,9636	0,9630	<b>0,0370</b>	<b>0,9713</b>	<b>0,9423</b>	<b>0,0370</b>
Male	1926,0000	74,0000	41,6000	1959,4000	<b>0,9711</b>	0,9630	<b>0,9789</b>	<b>0,9792</b>	0,0208	0,9709	<b>0,9423</b>	0,0208
overall	3885,4000	115,6000	115,6000	3885,4000	<b>0,9711</b>	0,9711	0,9711	0,9711	0,0289	0,9711	0,9422	0,0289

## 2.5.1 Tablica porównawczego algorytmu dla max\_depth = 15.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,8000	42,2000	102,6000	1897,4000	<b>0,9638</b>	<b>0,9789</b>	0,9502	0,9487	<b>0,0513</b>	<b>0,9643</b>	<b>0,9280</b>	<b>0,0513</b>
Male	1897,4000	102,6000	42,2000	1958,8000	<b>0,9638</b>	0,9487	<b>0,9782</b>	<b>0,9789</b>	0,0211	0,9632	<b>0,9280</b>	0,0211
overall	3856,2000	144,8000	144,8000	3856,2000	<b>0,9638</b>	0,9638	0,9638	0,9638	0,0362	0,9638	0,9276	0,0362

## 2.6.1 Porównanie confusion matrix dla max\_depth = 2.0



## 2.6.1 Tablica naszego algorytmu dla max\_depth = 2.0

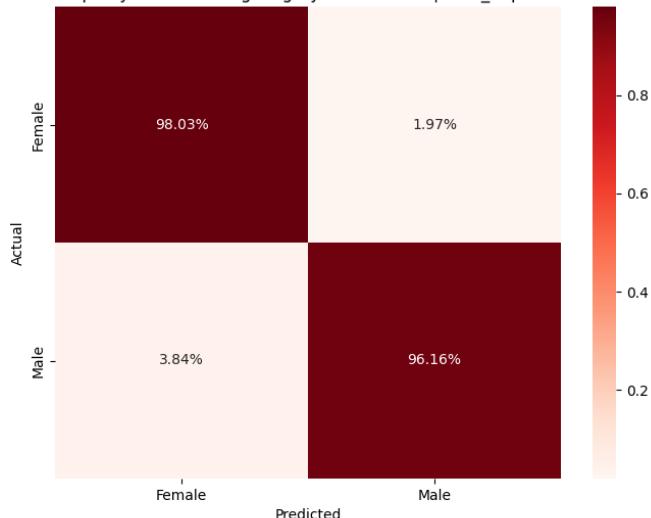
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1983,6000	17,4000	92,8000	1907,2000	<b>0,9725</b>	<b>0,9913</b>	0,9553	0,9536	<b>0,0464</b>	<b>0,9730</b>	<b>0,9456</b>	<b>0,0464</b>
Male	1907,2000	92,8000	17,4000	1983,6000	<b>0,9725</b>	0,9536	<b>0,9910</b>	<b>0,9913</b>	0,0087	0,9719	<b>0,9456</b>	0,0087
overall	3890,8000	110,2000	110,2000	3890,8000	<b>0,9725</b>	0,9725	0,9725	0,9725	0,0275	0,9725	0,9449	0,0275

## 2.6.1 Tablica porównawczego algorytmu dla max\_depth = 2.0

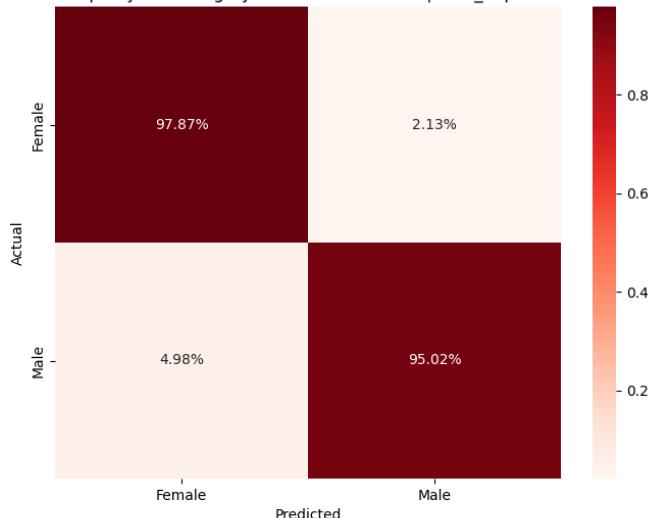
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,2000	44,8000	97,4000	1902,6000	<b>0,9645</b>	<b>0,9776</b>	0,9526	0,9513	<b>0,0487</b>	<b>0,9649</b>	<b>0,9292</b>	<b>0,0487</b>
Male	1902,6000	97,4000	44,8000	1956,2000	<b>0,9645</b>	0,9513	<b>0,9770</b>	<b>0,9776</b>	0,0224	0,9640	<b>0,9292</b>	0,0224
overall	3858,8000	142,2000	142,2000	3858,8000	<b>0,9645</b>	0,9645	0,9645	0,9645	0,0355	0,9645	0,9289	0,0355

## 2.7.1 Porównanie confusion matrix dla max\_depth = 200.0

Macierz pomyłek dla naszego algorytmu: Gender | max\_depth : 200.0



Macierz pomyłek dla algorytmu sklearn:Gender | max\_depth : 200.0



## 2.7.1 Tablica naszego algorytmu dla max\_depth = 200.0

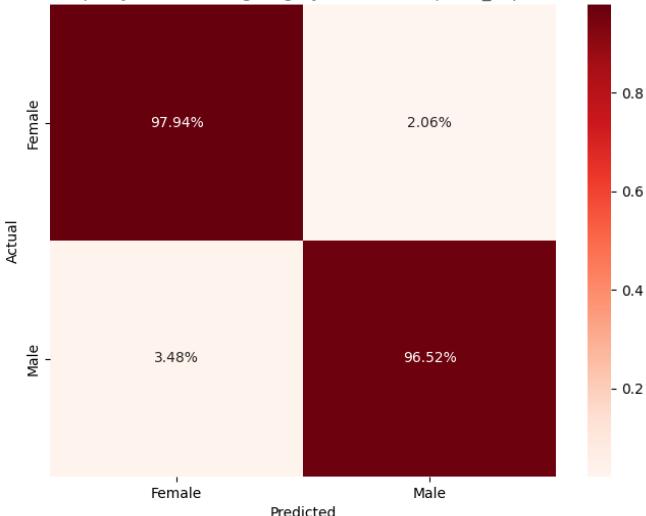
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1961,6000	39,4000	76,8000	1923,2000	<b>0,9710</b>	<b>0,9803</b>	0,9623	0,9616	<b>0,0384</b>	<b>0,9712</b>	<b>0,9421</b>	<b>0,0384</b>
Male	1923,2000	76,8000	39,4000	1961,6000	<b>0,9710</b>	0,9616	<b>0,9799</b>	<b>0,9803</b>	0,0197	0,9707	<b>0,9421</b>	0,0197
overall	3884,8000	116,2000	116,2000	3884,8000	<b>0,9710</b>	0,9710	0,9710	0,9710	0,0290	0,9710	0,9419	0,0290

## 2.7.1 Tablica porównawczego algorytmu dla max\_depth = 200.0

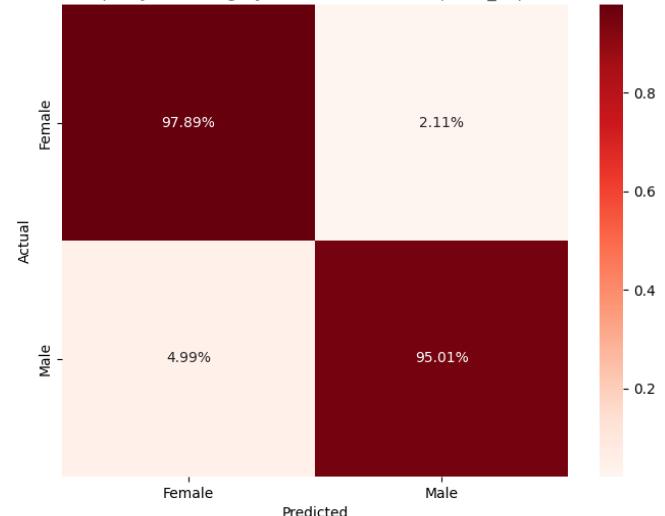
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,4000	42,6000	99,6000	1900,4000	<b>0,9645</b>	<b>0,9787</b>	0,9516	0,9502	<b>0,0498</b>	<b>0,9650</b>	<b>0,9293</b>	<b>0,0498</b>
Male	1900,4000	99,6000	42,6000	1958,4000	<b>0,9645</b>	0,9502	<b>0,9781</b>	<b>0,9787</b>	0,0213	0,9639	<b>0,9293</b>	0,0213
overall	3858,8000	142,2000	142,2000	3858,8000	<b>0,9645</b>	0,9645	0,9645	0,9645	0,0355	0,9645	0,9289	0,0355

## 2.8.1 Porównanie confusion matrix dla max\_depth = 25.0

Macierz pomylek dla naszego algorytmu: Gender | max\_depth : 25.0



Macierz pomylek dla algorytmu sklearn:Gender | max\_depth : 25.0



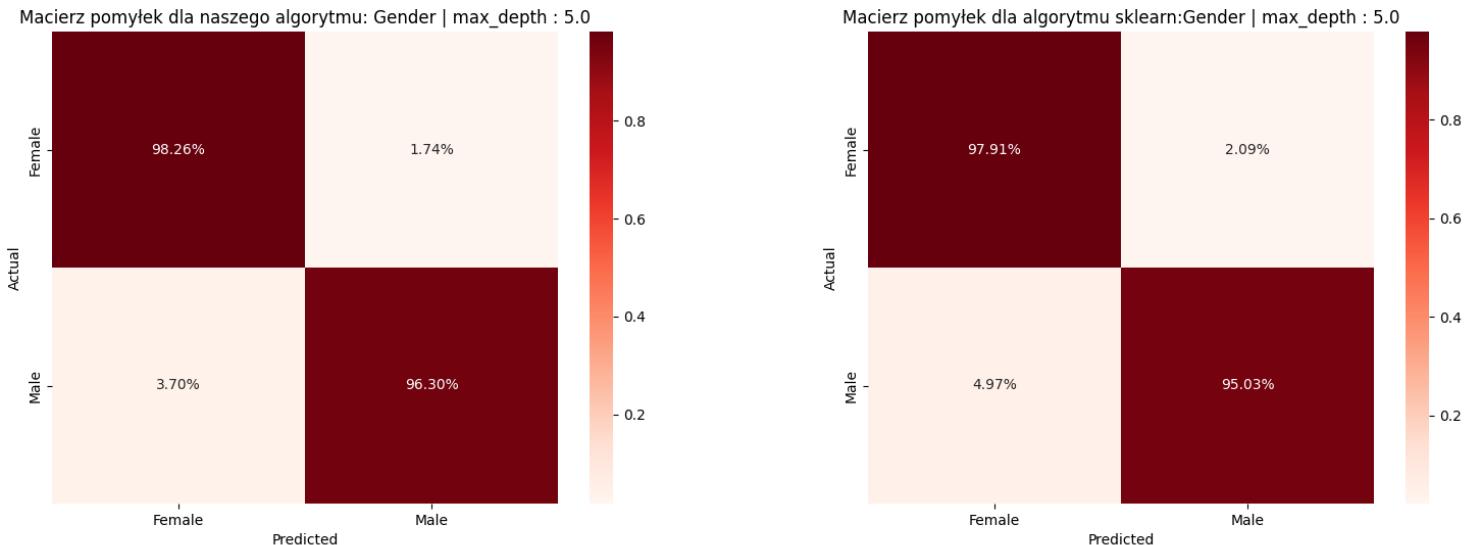
## 2.8.1 Tablica naszego algorytmu dla max\_depth = 25.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,8000	41,2000	69,6000	1930,4000	<b>0,9723</b>	<b>0,9794</b>	0,9657	0,9652	<b>0,0348</b>	<b>0,9725</b>	<b>0,9447</b>	<b>0,0348</b>
Male	1930,4000	69,6000	41,2000	1959,8000	<b>0,9723</b>	0,9652	<b>0,9791</b>	<b>0,9794</b>	0,0206	0,9721	<b>0,9447</b>	0,0206
overall	3890,2000	110,8000	110,8000	3890,2000	<b>0,9723</b>	0,9723	0,9723	0,9723	0,0277	0,9723	0,9446	0,0277

## 2.8.1 Tablica porównawczego algorytmu dla max\_depth = 25.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,8000	42,2000	99,8000	1900,2000	<b>0,9645</b>	<b>0,9789</b>	0,9515	0,9501	<b>0,0499</b>	<b>0,9650</b>	<b>0,9294</b>	<b>0,0499</b>
Male	1900,2000	99,8000	42,2000	1958,8000	<b>0,9645</b>	0,9501	<b>0,9783</b>	<b>0,9789</b>	0,0211	0,9640	<b>0,9294</b>	0,0211
overall	3859,0000	142,0000	142,0000	3859,0000	<b>0,9645</b>	0,9645	0,9645	0,9645	0,0355	0,9645	0,9290	0,0355

## 2.9.1 Porównanie confusion matrix dla max\_depth = 5.0



## 2.9.1 Tablica naszego algorytmu dla max\_depth = 5.0

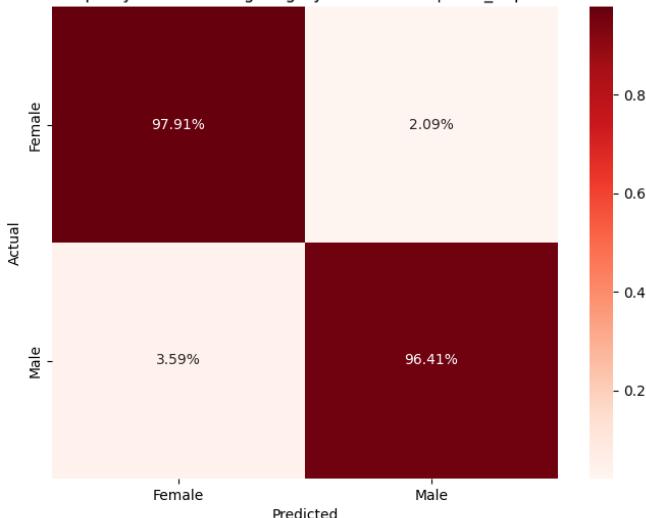
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1966,2000	34,8000	74,0000	1926,0000	<b>0,9728</b>	<b>0,9826</b>	0,9637	0,9630	<b>0,0370</b>	<b>0,9731</b>	<b>0,9458</b>	<b>0,0370</b>
Male	1926,0000	74,0000	34,8000	1966,2000	<b>0,9728</b>	0,9630	<b>0,9823</b>	<b>0,9826</b>	0,0174	0,9726	<b>0,9458</b>	0,0174
overall	3892,2000	108,8000	108,8000	3892,2000	<b>0,9728</b>	0,9728	0,9728	0,9728	0,0272	0,9728	0,9456	0,0272

## 2.9.1 Tablica porównawczego algorytmu dla max\_depth = 5.0

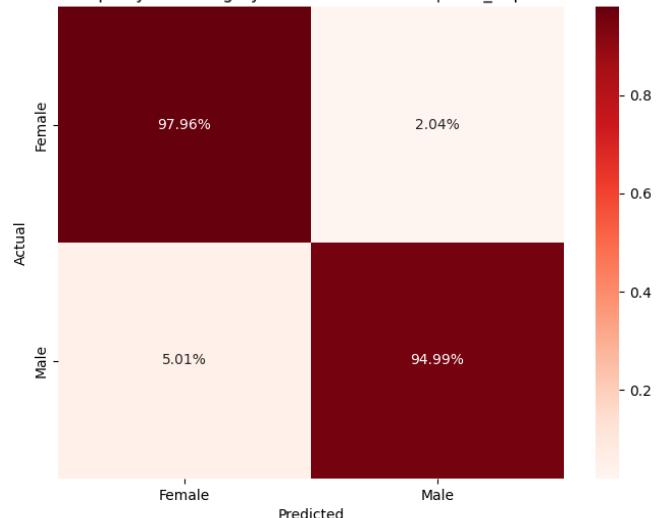
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,2000	41,8000	99,4000	1900,6000	<b>0,9647</b>	<b>0,9791</b>	0,9517	0,9503	<b>0,0497</b>	<b>0,9652</b>	<b>0,9298</b>	<b>0,0497</b>
Male	1900,6000	99,4000	41,8000	1959,2000	<b>0,9647</b>	0,9503	<b>0,9785</b>	<b>0,9791</b>	0,0209	0,9642	<b>0,9298</b>	0,0209
overall	3859,8000	141,2000	141,2000	3859,8000	<b>0,9647</b>	0,9647	0,9647	0,9647	0,0353	0,9647	0,9294	0,0353

## 2.10.1 Porównanie confusion matrix dla max\_depth = 50.0

Macierz pomylek dla naszego algorytmu: Gender | max\_depth : 50.0



Macierz pomylek dla algorytmu sklearn:Gender | max\_depth : 50.0



## 2.10.1 Tablica naszego algorytmu dla max\_depth = 50.0

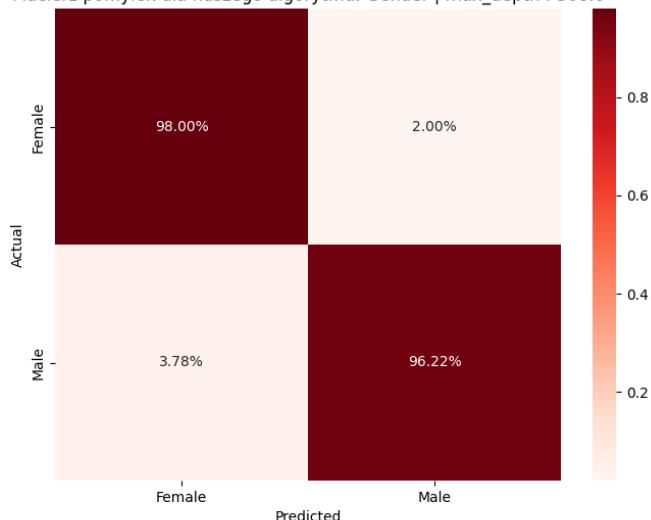
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,2000	41,8000	71,8000	1928,2000	<b>0,9716</b>	<b>0,9791</b>	0,9646	0,9641	<b>0,0359</b>	<b>0,9718</b>	<b>0,9433</b>	<b>0,0359</b>
Male	1928,2000	71,8000	41,8000	1959,2000	<b>0,9716</b>	0,9641	<b>0,9788</b>	<b>0,9791</b>	0,0209	0,9714	<b>0,9433</b>	0,0209
overall	3887,4000	113,6000	113,6000	3887,4000	<b>0,9716</b>	0,9716	0,9716	0,9716	0,0284	0,9716	0,9432	0,0284

## 2.10.1 Tablica porównawczego algorytmu dla max\_depth = 50.0

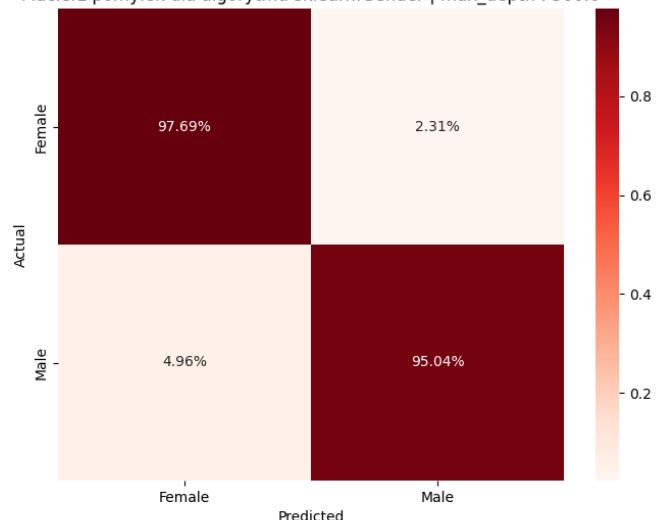
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1960,2000	40,8000	100,2000	1899,8000	<b>0,9648</b>	<b>0,9796</b>	0,9514	0,9499	<b>0,0501</b>	<b>0,9653</b>	<b>0,9299</b>	<b>0,0501</b>
Male	1899,8000	100,2000	40,8000	1960,2000	<b>0,9648</b>	0,9499	<b>0,9790</b>	<b>0,9796</b>	0,0204	0,9642	<b>0,9299</b>	0,0204
overall	3860,0000	141,0000	141,0000	3860,0000	<b>0,9648</b>	0,9648	0,9648	0,9648	0,0352	0,9648	0,9295	0,0352

## 2.11.1 Porównanie confusion matrix dla max\_depth = 500.0

Macierz pomyłek dla naszego algorytmu: Gender | max\_depth : 500.0



Macierz pomyłek dla algorytmu sklearn:Gender | max\_depth : 500.0



## 2.11.1 Tablica naszego algorytmu dla max\_depth = 500.0

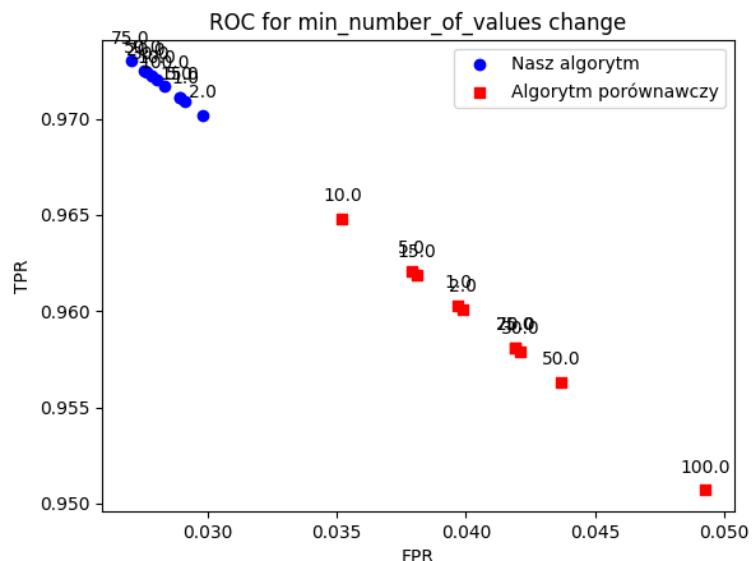
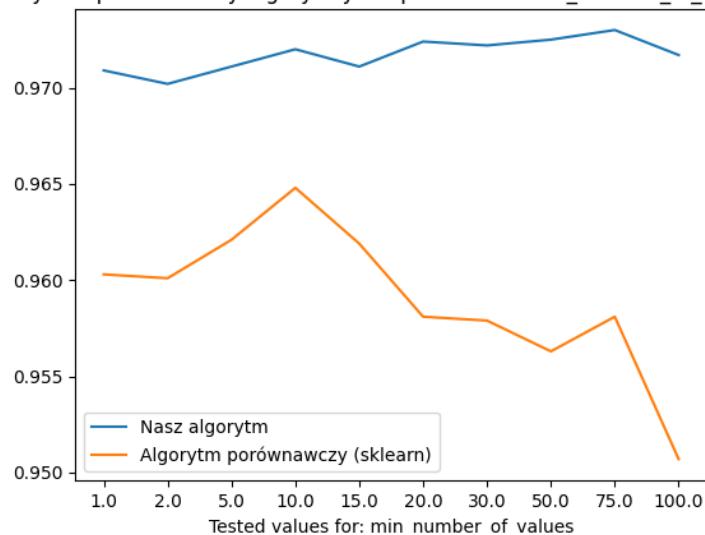
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1961,0000	40,0000	75,6000	1924,4000	<b>0,9711</b>	<b>0,9800</b>	0,9629	0,9622	<b>0,0378</b>	<b>0,9714</b>	<b>0,9424</b>	<b>0,0378</b>
Male	1924,4000	75,6000	40,0000	1961,0000	<b>0,9711</b>	0,9622	<b>0,9796</b>	<b>0,9800</b>	0,0200	0,9708	<b>0,9424</b>	0,0200
overall	3885,4000	115,6000	115,6000	3885,4000	<b>0,9711</b>	0,9711	0,9711	0,9711	0,0289	0,9711	0,9422	0,0289

## 2.11.1 Tablica porównawczego algorytmu dla max\_depth = 500.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1954,8000	46,2000	99,2000	1900,8000	<b>0,9637</b>	<b>0,9769</b>	0,9517	0,9504	<b>0,0496</b>	<b>0,9641</b>	<b>0,9276</b>	<b>0,0496</b>
Male	1900,8000	99,2000	46,2000	1954,8000	<b>0,9637</b>	0,9504	<b>0,9763</b>	<b>0,9769</b>	0,0231	0,9632	<b>0,9276</b>	0,0231
overall	3855,6000	145,4000	145,4000	3855,6000	<b>0,9637</b>	0,9637	0,9637	0,9637	0,0363	0,9637	0,9273	0,0363

### 3.1.1 Wykres precyzji oraz wykres ROC dla zmiany parametru: min\_number\_of\_values

Wykres porównawczy algorytmu dla parametru: min\_number\_of\_values



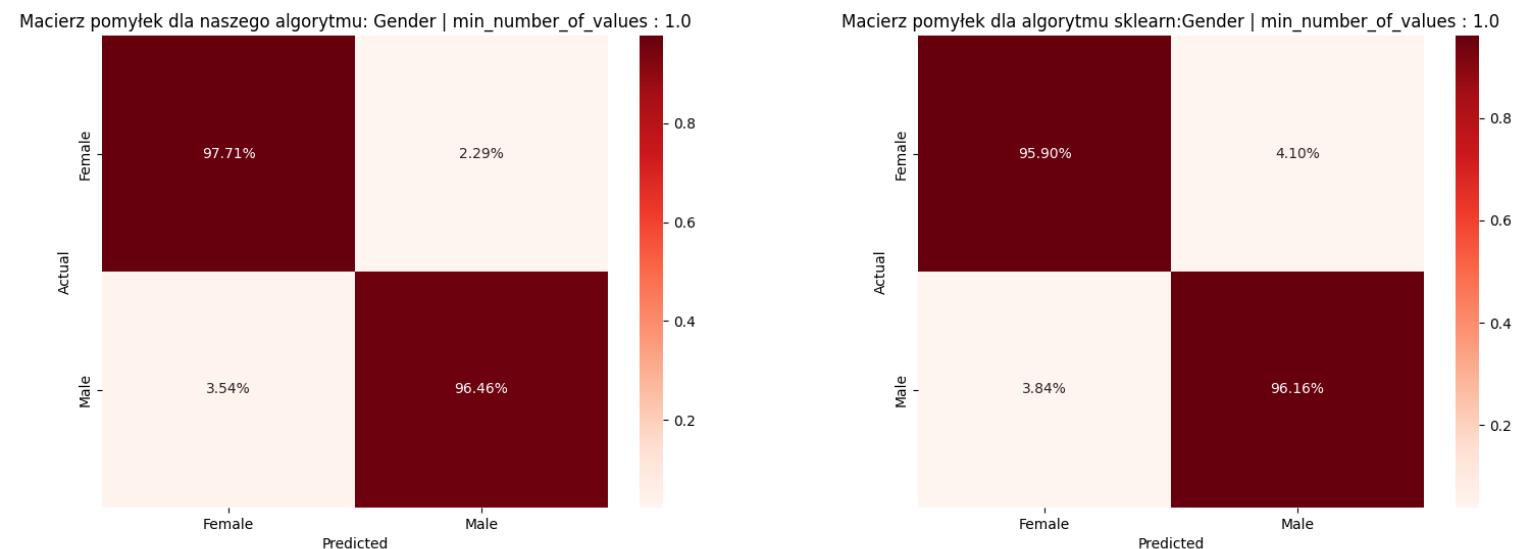
### 3.1.1 Tablica naszego algorytmu dla zmiany parametru: min\_number\_of\_values

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
1.0	3884,4000	116,6000	116,6000	3884,4000	0,9709	0,9709	0,9709	0,9709	0,0291	0,9709	0,9417	0,0291
2.0	3881,6000	119,4000	119,4000	3881,6000	0,9702	0,9702	0,9702	0,9702	<b>0,0298</b>	0,9702	0,9403	<b>0,0298</b>
5.0	3885,2000	115,8000	115,8000	3885,2000	0,9711	0,9711	0,9711	0,9711	0,0289	0,9711	0,9421	0,0289
10.0	3888,8000	112,2000	112,2000	3888,8000	0,9720	0,9720	0,9720	0,9720	0,0280	0,9720	0,9439	0,0280
15.0	3885,2000	115,8000	115,8000	3885,2000	0,9711	0,9711	0,9711	0,9711	0,0289	0,9711	0,9421	0,0289
20.0	3890,4000	110,6000	110,6000	3890,4000	0,9724	0,9724	0,9724	0,9724	0,0276	0,9724	0,9447	0,0276
30.0	3889,6000	111,4000	111,4000	3889,6000	0,9722	0,9722	0,9722	0,9722	0,0278	0,9722	0,9443	0,0278
50.0	3890,8000	110,2000	110,2000	3890,8000	0,9725	0,9725	0,9725	0,9725	0,0275	0,9725	0,9449	0,0275
75.0	3893,0000	108,0000	108,0000	3893,0000	<b>0,9730</b>	<b>0,9730</b>	<b>0,9730</b>	<b>0,9730</b>	0,0270	<b>0,9730</b>	<b>0,9460</b>	0,0270
100.0	3887,8000	113,2000	113,2000	3887,8000	0,9717	0,9717	0,9717	0,9717	0,0283	0,9717	0,9434	0,0283

### 3.1.1 Tablica porównawczego algorytmu dla zmiany parametru: min\_number\_of\_values

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
1.0	3842,2000	158,8000	158,8000	3842,2000	0,9603	0,9603	0,9603	0,9603	0,0397	0,9603	0,9206	0,0397
2.0	3841,4000	159,6000	159,6000	3841,4000	0,9601	0,9601	0,9601	0,9601	0,0399	0,9601	0,9202	0,0399
5.0	3849,4000	151,6000	151,6000	3849,4000	0,9621	0,9621	0,9621	0,9621	0,0379	0,9621	0,9242	0,0379
10.0	3860,0000	141,0000	141,0000	3860,0000	<b>0,9648</b>	<b>0,9648</b>	<b>0,9648</b>	<b>0,9648</b>	0,0352	<b>0,9648</b>	<b>0,9295</b>	0,0352
15.0	3848,6000	152,4000	152,4000	3848,6000	0,9619	0,9619	0,9619	0,9619	0,0381	0,9619	0,9238	0,0381
20.0	3833,2000	167,8000	167,8000	3833,2000	0,9581	0,9581	0,9581	0,9581	0,0419	0,9581	0,9161	0,0419
30.0	3832,4000	168,6000	168,6000	3832,4000	0,9579	0,9579	0,9579	0,9579	0,0421	0,9579	0,9157	0,0421
50.0	3826,0000	175,0000	175,0000	3826,0000	0,9563	0,9563	0,9563	0,9563	0,0437	0,9563	0,9125	0,0437
75.0	3833,4000	167,6000	167,6000	3833,4000	0,9581	0,9581	0,9581	0,9581	0,0419	0,9581	0,9162	0,0419
100.0	3803,6000	197,4000	197,4000	3803,6000	0,9507	0,9507	0,9507	0,9507	<b>0,0493</b>	0,9507	0,9013	<b>0,0493</b>

### 3.2.1 Porównanie confusion matrix dla min\_number\_of\_values = 1.0



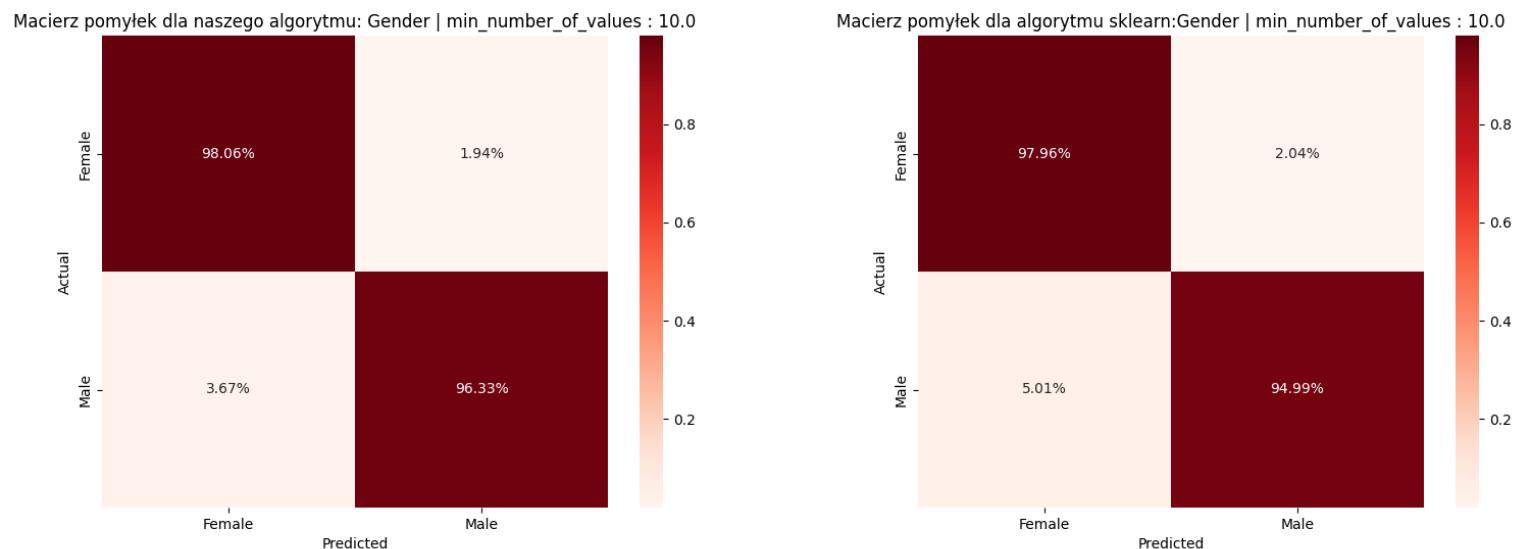
### 3.2.1 Tablica naszego algorytmu dla min\_number\_of\_values = 1.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1955,2000	45,8000	70,8000	1929,2000	<b>0,9709</b>	<b>0,9771</b>	0,9651	0,9646	<b>0,0354</b>	<b>0,9711</b>	<b>0,9418</b>	<b>0,0354</b>
Male	1929,2000	70,8000	45,8000	1955,2000	<b>0,9709</b>	0,9646	<b>0,9768</b>	<b>0,9771</b>	0,0229	0,9707	<b>0,9418</b>	0,0229
overall	3884,4000	116,6000	116,6000	3884,4000	<b>0,9709</b>	0,9709	0,9709	0,9709	0,0291	0,9709	0,9417	0,0291

### 3.2.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 1.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1919,0000	82,0000	76,8000	1923,2000	<b>0,9603</b>	0,9590	<b>0,9615</b>	<b>0,9616</b>	0,0384	0,9602	<b>0,9206</b>	0,0384
Male	1923,2000	76,8000	82,0000	1919,0000	<b>0,9603</b>	<b>0,9616</b>	0,9591	0,9590	<b>0,0410</b>	<b>0,9603</b>	<b>0,9206</b>	<b>0,0410</b>
overall	3842,2000	158,8000	158,8000	3842,2000	<b>0,9603</b>	0,9603	0,9603	0,9603	0,0397	<b>0,9603</b>	<b>0,9206</b>	0,0397

### 3.3.1 Porównanie confusion matrix dla min\_number\_of\_values = 10.0



### 3.3.1 Tablica naszego algorytmu dla min\_number\_of\_values = 10.0

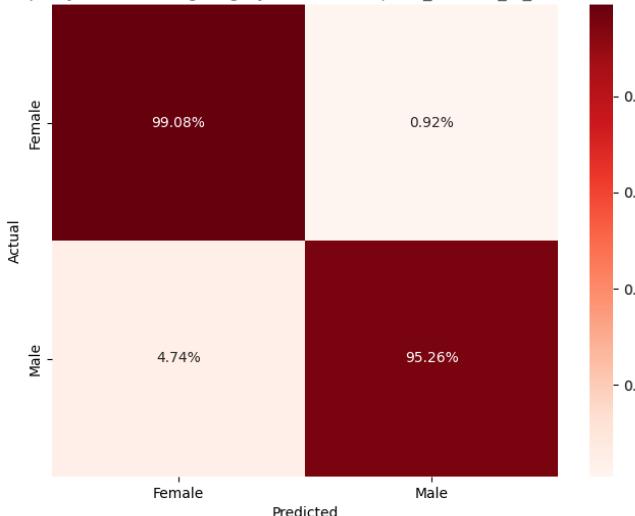
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1962,2000	38,8000	73,4000	1926,6000	<b>0,9720</b>	<b>0,9806</b>	0,9639	0,9633	<b>0,0367</b>	<b>0,9722</b>	<b>0,9441</b>	<b>0,0367</b>
Male	1926,6000	73,4000	38,8000	1962,2000	<b>0,9720</b>	0,9633	<b>0,9803</b>	<b>0,9806</b>	0,0194	0,9717	<b>0,9441</b>	0,0194
overall	3888,8000	112,2000	112,2000	3888,8000	<b>0,9720</b>	0,9720	0,9720	0,9720	0,0280	0,9720	0,9439	0,0280

### 3.3.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 10.0

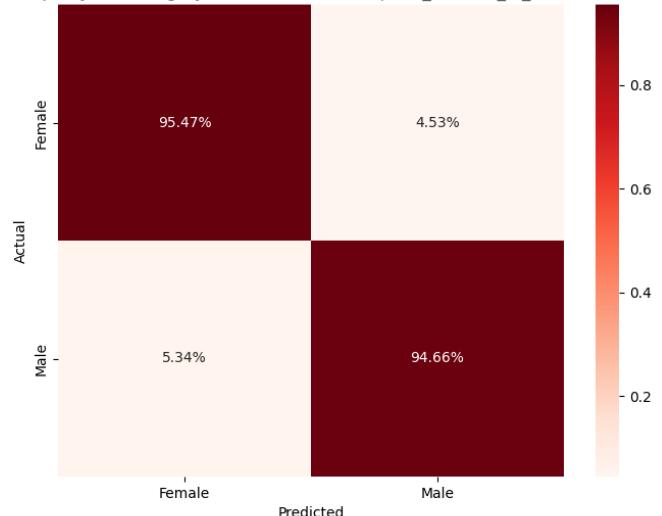
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1960,2000	40,8000	100,2000	1899,8000	<b>0,9648</b>	<b>0,9796</b>	0,9514	0,9499	<b>0,0501</b>	<b>0,9653</b>	<b>0,9299</b>	<b>0,0501</b>
Male	1899,8000	100,2000	40,8000	1960,2000	<b>0,9648</b>	0,9499	<b>0,9790</b>	<b>0,9796</b>	0,0204	0,9642	<b>0,9299</b>	0,0204
overall	3860,0000	141,0000	141,0000	3860,0000	<b>0,9648</b>	0,9648	0,9648	0,9648	0,0352	0,9648	0,9295	0,0352

### 3.4.1 Porównanie confusion matrix dla min\_number\_of\_values = 100.0

Macierz pomyłek dla naszego algorytmu: Gender | min\_number\_of\_values : 100.0



Macierz pomyłek dla algorytmu sklearn:Gender | min\_number\_of\_values : 100.0



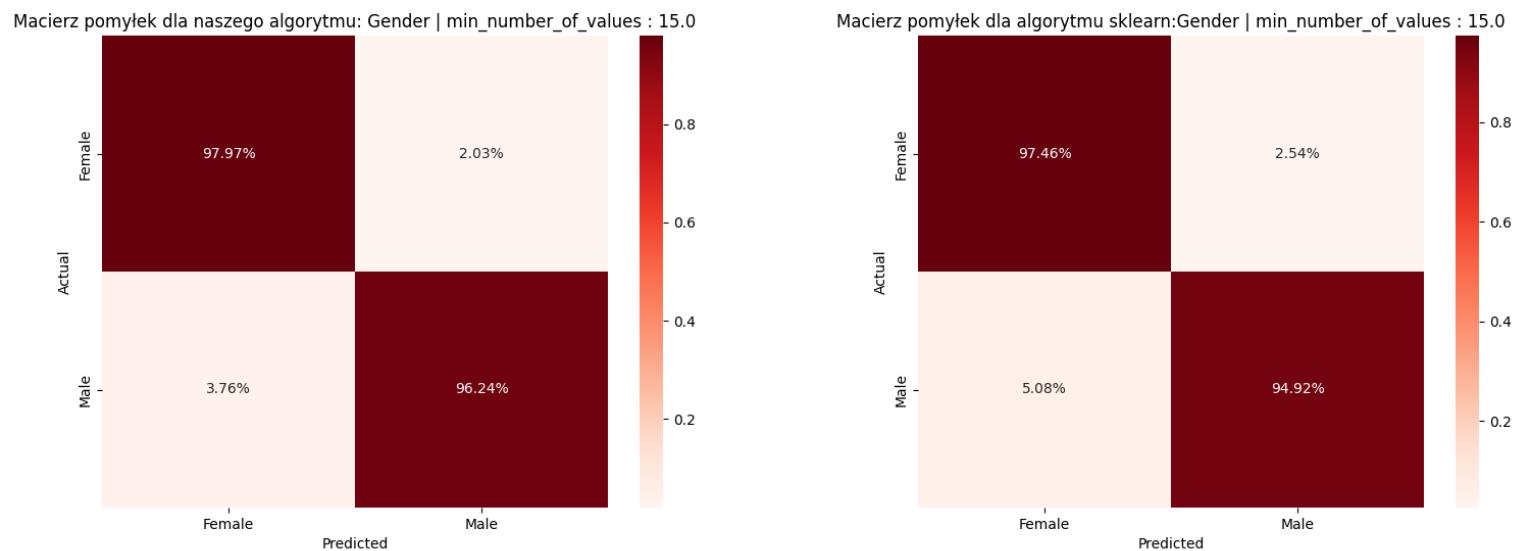
### 3.4.1 Tablica naszego algorytmu dla min\_number\_of\_values = 100.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1982,6000	18,4000	94,8000	1905,2000	<b>0,9717</b>	<b>0,9908</b>	0,9544	0,9526	<b>0,0474</b>	<b>0,9723</b>	<b>0,9441</b>	<b>0,0474</b>
Male	1905,2000	94,8000	18,4000	1982,6000	<b>0,9717</b>	0,9526	<b>0,9904</b>	<b>0,9908</b>	0,0092	0,9711	<b>0,9441</b>	0,0092
overall	3887,8000	113,2000	113,2000	3887,8000	<b>0,9717</b>	0,9717	0,9717	0,9717	0,0283	0,9717	0,9434	0,0283

### 3.4.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 100.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1910,4000	90,6000	106,8000	1893,2000	<b>0,9507</b>	<b>0,9547</b>	0,9471	0,9466	<b>0,0534</b>	<b>0,9509</b>	<b>0,9014</b>	<b>0,0534</b>
Male	1893,2000	106,8000	90,6000	1910,4000	<b>0,9507</b>	0,9466	<b>0,9543</b>	<b>0,9547</b>	0,0453	0,9504	<b>0,9014</b>	0,0453
overall	3803,6000	197,4000	197,4000	3803,6000	<b>0,9507</b>	0,9507	0,9507	0,9507	0,0493	0,9507	0,9013	0,0493

### 3.5.1 Porównanie confusion matrix dla min\_number\_of\_values = 15.0



### 3.5.1 Tablica naszego algorytmu dla min\_number\_of\_values = 15.0

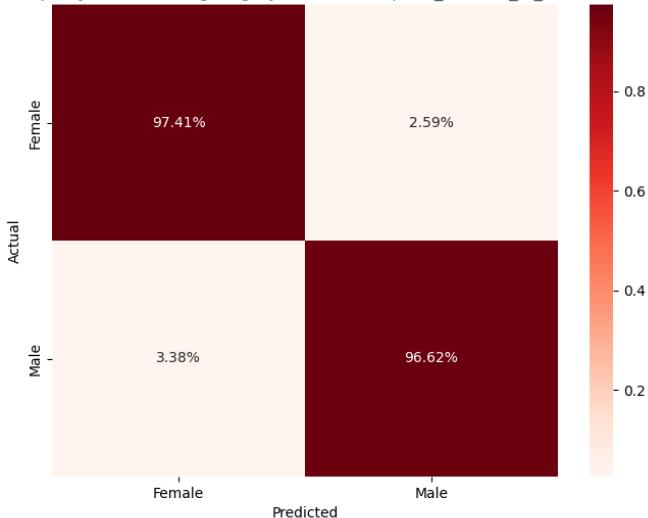
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1960,4000	40,6000	75,2000	1924,8000	<b>0,9711</b>	<b>0,9797</b>	0,9631	0,9624	<b>0,0376</b>	<b>0,9713</b>	<b>0,9423</b>	<b>0,0376</b>
Male	1924,8000	75,2000	40,6000	1960,4000	<b>0,9711</b>	0,9624	<b>0,9793</b>	<b>0,9797</b>	0,0203	0,9708	<b>0,9423</b>	0,0203
overall	3885,2000	115,8000	115,8000	3885,2000	<b>0,9711</b>	0,9711	0,9711	0,9711	0,0289	0,9711	0,9421	0,0289

### 3.5.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 15.0

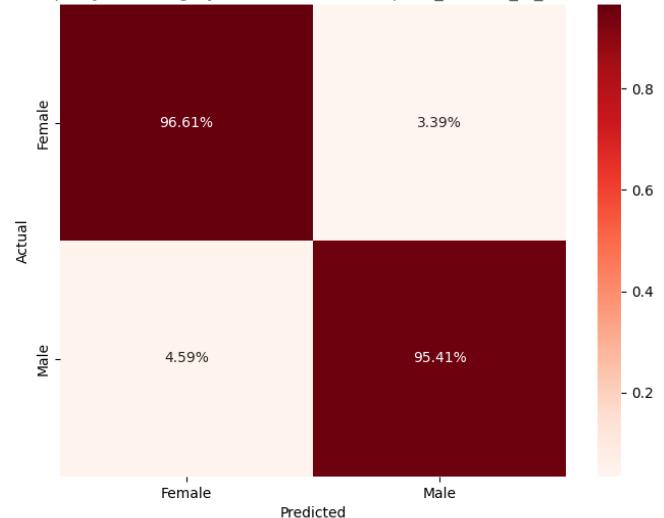
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1950,2000	50,8000	101,6000	1898,4000	<b>0,9619</b>	<b>0,9746</b>	0,9505	0,9492	<b>0,0508</b>	<b>0,9624</b>	<b>0,9241</b>	<b>0,0508</b>
Male	1898,4000	101,6000	50,8000	1950,2000	<b>0,9619</b>	0,9492	<b>0,9739</b>	<b>0,9746</b>	0,0254	0,9614	<b>0,9241</b>	0,0254
overall	3848,6000	152,4000	152,4000	3848,6000	<b>0,9619</b>	0,9619	0,9619	0,9619	0,0381	0,9619	0,9238	0,0381

### 3.6.1 Porównanie confusion matrix dla min\_number\_of\_values = 2.0

Macierz pomyłek dla naszego algorytmu: Gender | min\_number\_of\_values : 2.0



Macierz pomyłek dla algorytmu sklearn:Gender | min\_number\_of\_values : 2.0



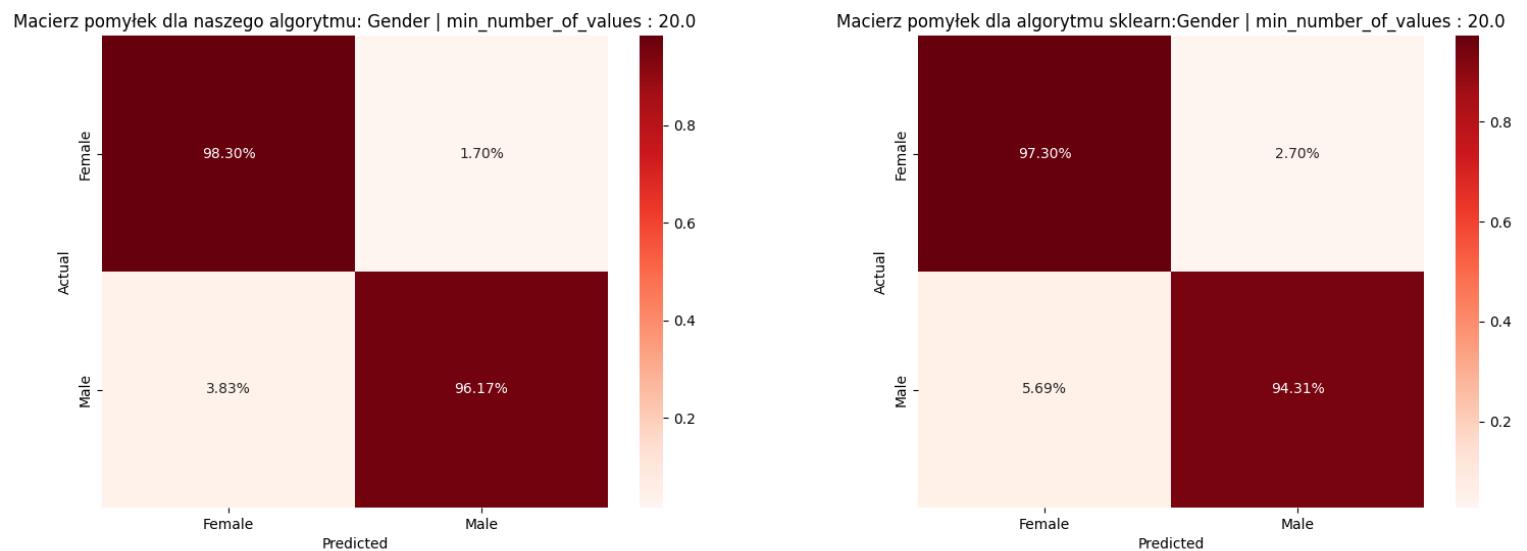
### 3.6.1 Tablica naszego algorytmu dla min\_number\_of\_values = 2.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1949,2000	51,8000	67,6000	1932,4000	<b>0,9702</b>	<b>0,9741</b>	0,9665	0,9662	<b>0,0338</b>	<b>0,9703</b>	<b>0,9403</b>	<b>0,0338</b>
Male	1932,4000	67,6000	51,8000	1949,2000	<b>0,9702</b>	0,9662	<b>0,9739</b>	<b>0,9741</b>	0,0259	0,9700	<b>0,9403</b>	0,0259
overall	3881,6000	119,4000	119,4000	3881,6000	<b>0,9702</b>	0,9702	0,9702	0,9702	0,0298	0,9702	<b>0,9403</b>	0,0298

### 3.6.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 2.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1933,2000	67,8000	91,8000	1908,2000	<b>0,9601</b>	<b>0,9661</b>	0,9547	0,9541	<b>0,0459</b>	<b>0,9604</b>	<b>0,9203</b>	<b>0,0459</b>
Male	1908,2000	91,8000	67,8000	1933,2000	<b>0,9601</b>	0,9541	<b>0,9657</b>	<b>0,9661</b>	0,0339	0,9599	<b>0,9203</b>	0,0339
overall	3841,4000	159,6000	159,6000	3841,4000	<b>0,9601</b>	0,9601	0,9601	0,9601	0,0399	0,9601	0,9202	0,0399

### 3.7.1 Porównanie confusion matrix dla min\_number\_of\_values = 20.0



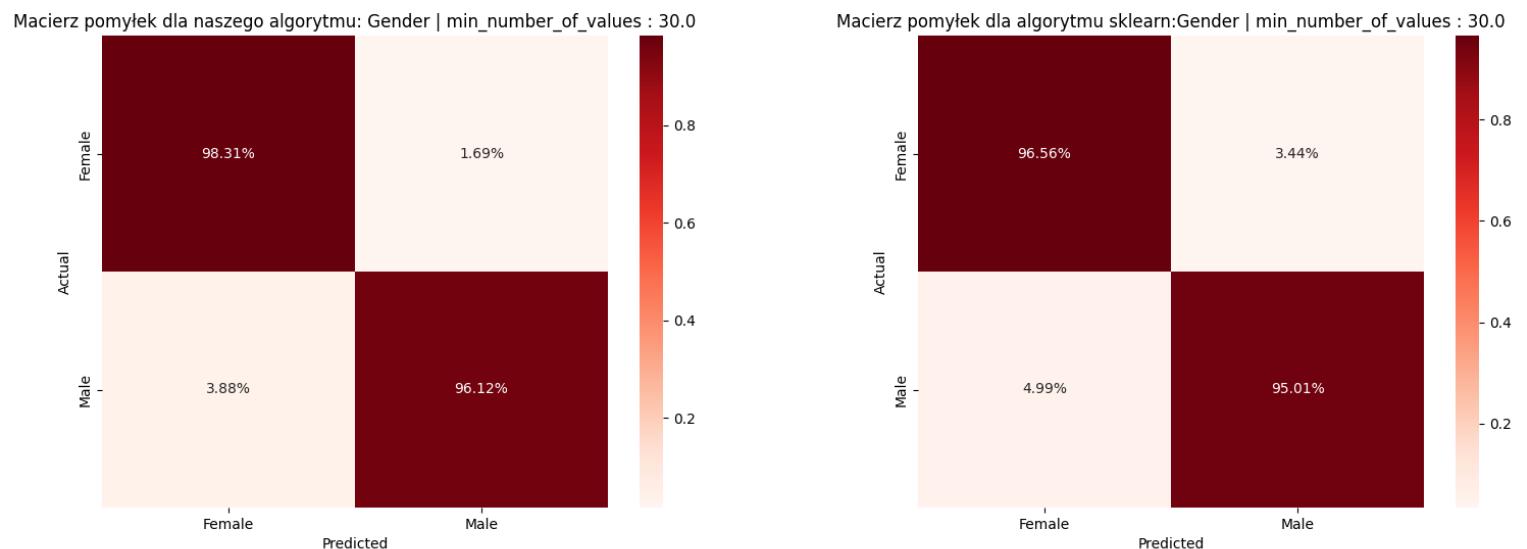
### 3.7.1 Tablica naszego algorytmu dla min\_number\_of\_values = 20.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1967,0000	34,0000	76,6000	1923,4000	<b>0,9724</b>	<b>0,9830</b>	0,9625	0,9617	<b>0,0383</b>	<b>0,9726</b>	<b>0,9449</b>	<b>0,0383</b>
Male	1923,4000	76,6000	34,0000	1967,0000	<b>0,9724</b>	0,9617	<b>0,9826</b>	<b>0,9830</b>	0,0170	0,9720	<b>0,9449</b>	0,0170
overall	3890,4000	110,6000	110,6000	3890,4000	<b>0,9724</b>	0,9724	0,9724	0,9724	0,0276	0,9724	0,9447	0,0276

### 3.7.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 20.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1947,0000	54,0000	113,8000	1886,2000	<b>0,9581</b>	<b>0,9730</b>	0,9448	0,9431	<b>0,0569</b>	<b>0,9587</b>	<b>0,9165</b>	<b>0,0569</b>
Male	1886,2000	113,8000	54,0000	1947,0000	<b>0,9581</b>	0,9431	<b>0,9722</b>	<b>0,9730</b>	0,0270	0,9574	<b>0,9165</b>	0,0270
overall	3833,2000	167,8000	167,8000	3833,2000	<b>0,9581</b>	0,9581	0,9581	0,9581	0,0419	0,9581	0,9161	0,0419

### 3.8.1 Porównanie confusion matrix dla min\_number\_of\_values = 30.0



### 3.8.1 Tablica naszego algorytmu dla min\_number\_of\_values = 30.0

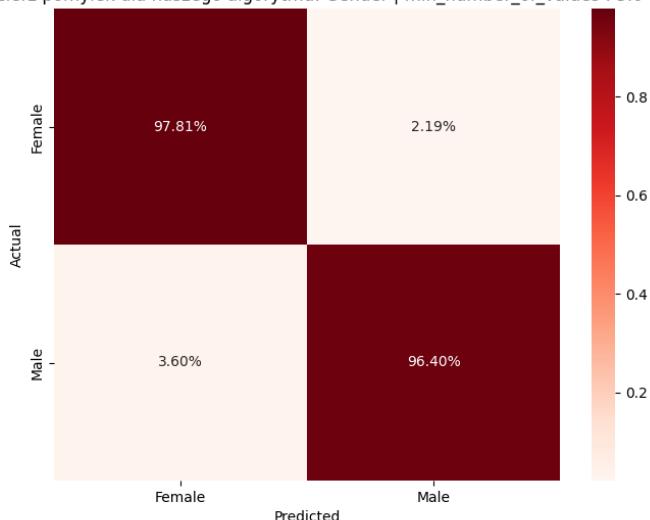
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1967,2000	33,8000	77,6000	1922,4000	<b>0,9722</b>	<b>0,9831</b>	0,9621	0,9612	<b>0,0388</b>	<b>0,9725</b>	<b>0,9445</b>	<b>0,0388</b>
Male	1922,4000	77,6000	33,8000	1967,2000	<b>0,9722</b>	0,9612	<b>0,9827</b>	<b>0,9831</b>	0,0169	0,9718	<b>0,9445</b>	0,0169
overall	3889,6000	111,4000	111,4000	3889,6000	<b>0,9722</b>	0,9722	0,9722	0,9722	0,0278	0,9722	0,9443	0,0278

### 3.8.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 30.0

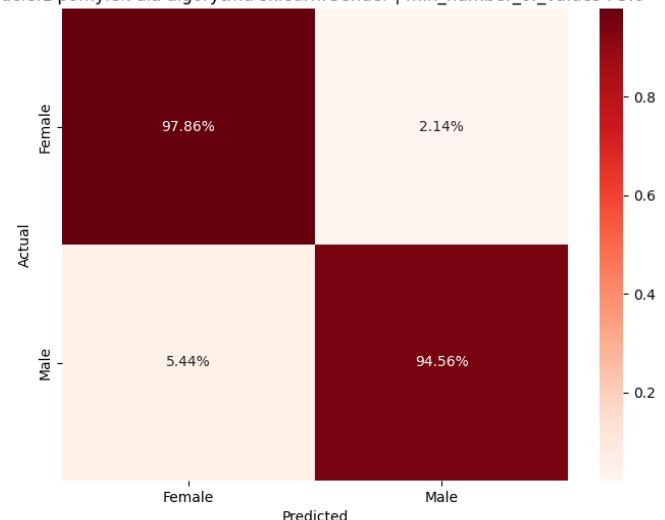
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1932,2000	68,8000	99,8000	1900,2000	<b>0,9579</b>	<b>0,9656</b>	0,9509	0,9501	<b>0,0499</b>	<b>0,9582</b>	<b>0,9158</b>	<b>0,0499</b>
Male	1900,2000	99,8000	68,8000	1932,2000	<b>0,9579</b>	0,9501	<b>0,9651</b>	<b>0,9656</b>	0,0344	0,9575	<b>0,9158</b>	0,0344
overall	3832,4000	168,6000	168,6000	3832,4000	<b>0,9579</b>	0,9579	0,9579	0,9579	0,0421	0,9579	0,9157	0,0421

### 3.9.1 Porównanie confusion matrix dla min\_number\_of\_values = 5.0

Macierz pomyłek dla naszego algorytmu: Gender | min\_number\_of\_values : 5.0



Macierz pomyłek dla algorytmu sklearn:Gender | min\_number\_of\_values : 5.0



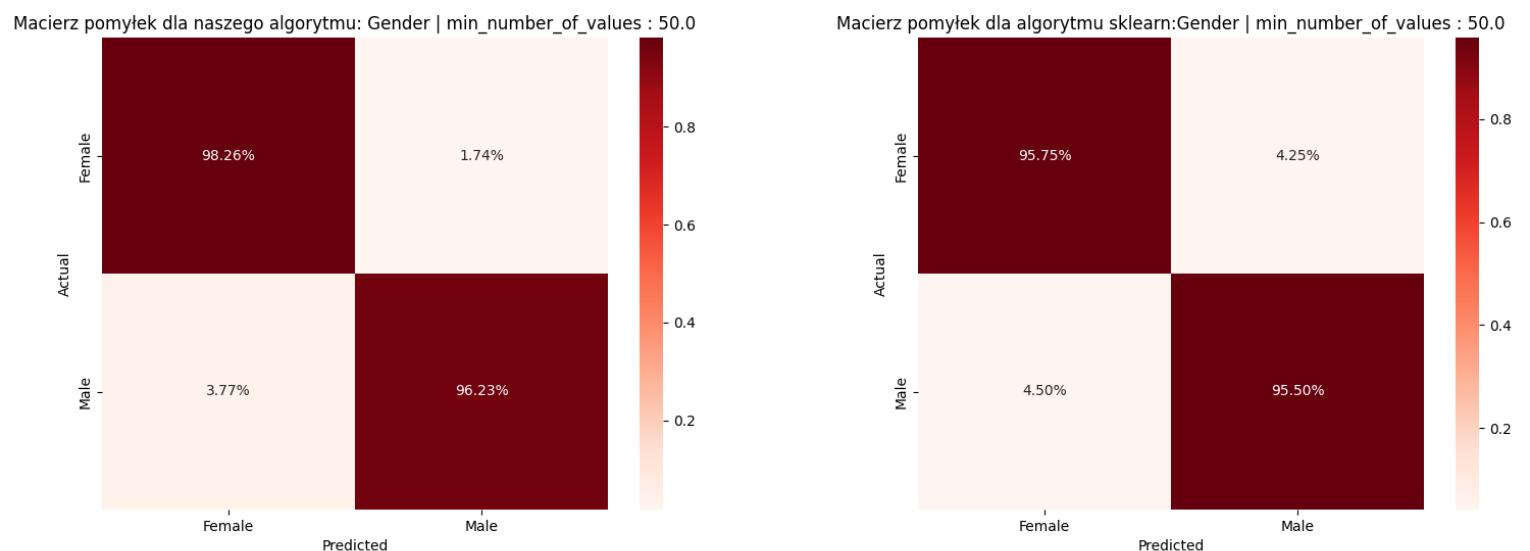
### 3.9.1 Tablica naszego algorytmu dla min\_number\_of\_values = 5.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1957,2000	43,8000	72,0000	1928,0000	<b>0,9711</b>	<b>0,9781</b>	0,9645	0,9640	<b>0,0360</b>	<b>0,9713</b>	<b>0,9422</b>	<b>0,0360</b>
Male	1928,0000	72,0000	43,8000	1957,2000	<b>0,9711</b>	0,9640	<b>0,9778</b>	<b>0,9781</b>	0,0219	0,9709	<b>0,9422</b>	0,0219
overall	3885,2000	115,8000	115,8000	3885,2000	<b>0,9711</b>	0,9711	0,9711	0,9711	0,0289	0,9711	0,9421	0,0289

### 3.9.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 5.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,2000	42,8000	108,8000	1891,2000	<b>0,9621</b>	<b>0,9786</b>	0,9474	0,9456	<b>0,0544</b>	<b>0,9627</b>	<b>0,9247</b>	<b>0,0544</b>
Male	1891,2000	108,8000	42,8000	1958,2000	<b>0,9621</b>	0,9456	<b>0,9779</b>	<b>0,9786</b>	0,0214	0,9615	<b>0,9247</b>	0,0214
overall	3849,4000	151,6000	151,6000	3849,4000	<b>0,9621</b>	0,9621	0,9621	0,9621	0,0379	0,9621	0,9242	0,0379

### 3.10.1 Porównanie confusion matrix dla min\_number\_of\_values = 50.0



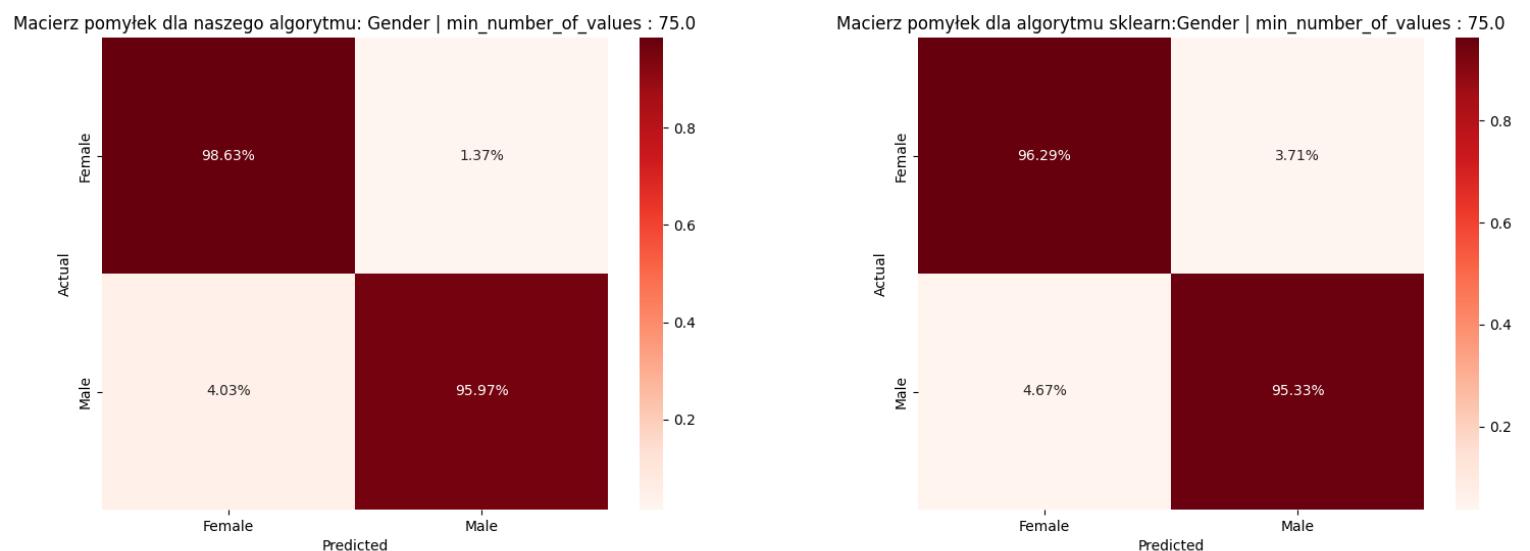
### 3.10.1 Tablica naszego algorytmu dla min\_number\_of\_values = 50.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1966,2000	34,8000	75,4000	1924,6000	<b>0,9725</b>	<b>0,9826</b>	0,9631	0,9623	<b>0,0377</b>	<b>0,9728</b>	<b>0,9451</b>	<b>0,0377</b>
Male	1924,6000	75,4000	34,8000	1966,2000	<b>0,9725</b>	0,9623	<b>0,9822</b>	<b>0,9826</b>	0,0174	0,9721	<b>0,9451</b>	0,0174
overall	3890,8000	110,2000	110,2000	3890,8000	<b>0,9725</b>	0,9725	0,9725	0,9725	0,0275	0,9725	0,9449	0,0275

### 3.10.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 50.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1916,0000	85,0000	90,0000	1910,0000	<b>0,9563</b>	<b>0,9575</b>	0,9551	0,9550	<b>0,0450</b>	<b>0,9563</b>	<b>0,9125</b>	<b>0,0450</b>
Male	1910,0000	90,0000	85,0000	1916,0000	<b>0,9563</b>	0,9550	<b>0,9574</b>	<b>0,9575</b>	0,0425	0,9562	<b>0,9125</b>	0,0425
overall	3826,0000	175,0000	175,0000	3826,0000	<b>0,9563</b>	0,9563	0,9563	0,9563	0,0437	<b>0,9563</b>	<b>0,9125</b>	0,0437

### 3.11.1 Porównanie confusion matrix dla min\_number\_of\_values = 75.0



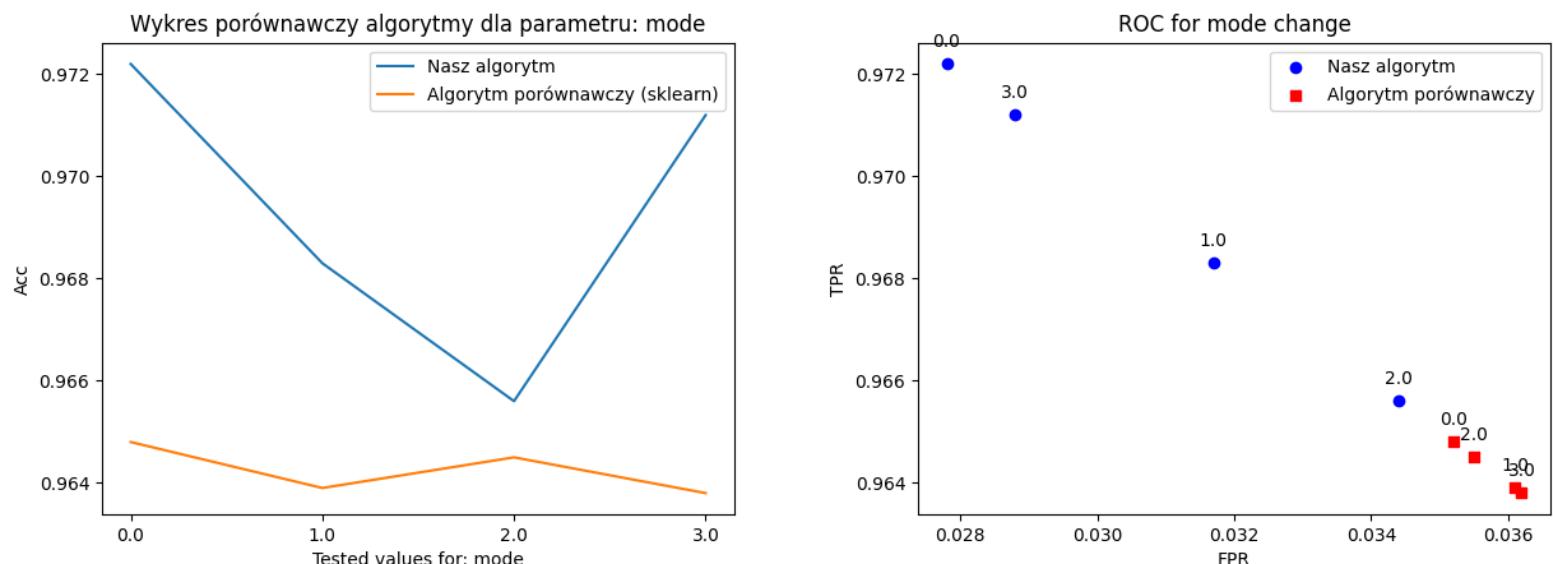
### 3.11.1 Tablica naszego algorytmu dla min\_number\_of\_values = 75.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1973,6000	27,4000	80,6000	1919,4000	<b>0,9730</b>	<b>0,9863</b>	0,9608	0,9597	<b>0,0403</b>	<b>0,9734</b>	<b>0,9463</b>	<b>0,0403</b>
Male	1919,4000	80,6000	27,4000	1973,6000	<b>0,9730</b>	0,9597	<b>0,9859</b>	<b>0,9863</b>	0,0137	0,9726	<b>0,9463</b>	0,0137
overall	3893,0000	108,0000	108,0000	3893,0000	<b>0,9730</b>	0,9730	0,9730	0,9730	0,0270	0,9730	0,9460	0,0270

### 3.11.1 Tablica porównawczego algorytmu dla min\_number\_of\_values = 75.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1926,8000	74,2000	93,4000	1906,6000	<b>0,9581</b>	<b>0,9629</b>	0,9538	0,9533	<b>0,0467</b>	<b>0,9583</b>	<b>0,9163</b>	<b>0,0467</b>
Male	1906,6000	93,4000	74,2000	1926,8000	<b>0,9581</b>	0,9533	<b>0,9625</b>	<b>0,9629</b>	0,0371	0,9579	<b>0,9163</b>	0,0371
overall	3833,4000	167,6000	167,6000	3833,4000	<b>0,9581</b>	0,9581	0,9581	0,9581	0,0419	0,9581	0,9162	0,0419

## 4.1.1 Wykres precyzji oraz wykres ROC dla zmiany parametru: mode



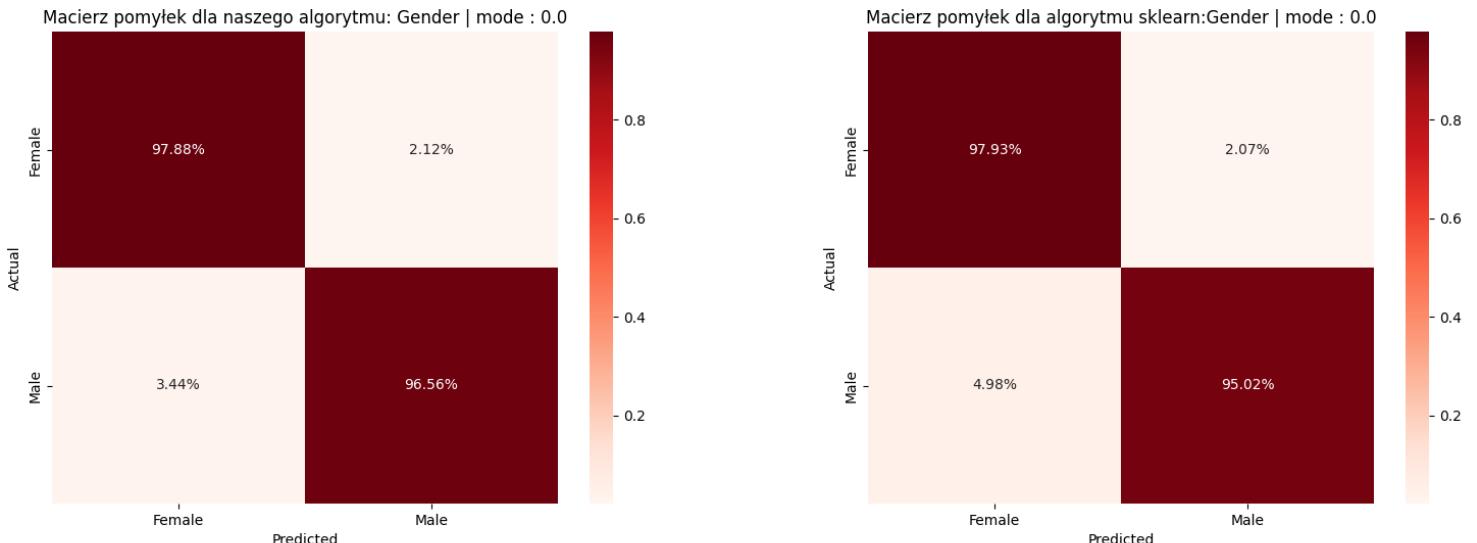
### 4.1.1 Tablica naszego algorytmu dla zmiany parametru: mode

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
0.0	3889,8000	111,2000	111,2000	3889,8000	<b>0,9722</b>	<b>0,9722</b>	<b>0,9722</b>	<b>0,9722</b>	0,0278	<b>0,9722</b>	<b>0,9444</b>	0,0278
1.0	3874,2000	126,8000	126,8000	3874,2000	0,9683	0,9683	0,9683	0,9683	0,0317	0,9683	0,9366	0,0317
2.0	3863,4000	137,6000	137,6000	3863,4000	0,9656	0,9656	0,9656	0,9656	<b>0,0344</b>	0,9656	0,9312	<b>0,0344</b>
3.0	3885,8000	115,2000	115,2000	3885,8000	0,9712	0,9712	0,9712	0,9712	0,0288	0,9712	0,9424	0,0288

### 4.1.1 Tablica porównawczego algorytmu dla zmiany parametru: mode

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
0.0	3860,0000	141,0000	141,0000	3860,0000	<b>0,9648</b>	<b>0,9648</b>	<b>0,9648</b>	<b>0,9648</b>	0,0352	<b>0,9648</b>	<b>0,9295</b>	0,0352
1.0	3856,6000	144,4000	144,4000	3856,6000	0,9639	0,9639	0,9639	0,9639	0,0361	0,9639	0,9278	0,0361
2.0	3858,8000	142,2000	142,2000	3858,8000	0,9645	0,9645	0,9645	0,9645	0,0355	0,9645	0,9289	0,0355
3.0	3856,2000	144,8000	144,8000	3856,2000	0,9638	0,9638	0,9638	0,9638	<b>0,0362</b>	0,9638	0,9276	<b>0,0362</b>

## 4.2.1 Porównanie confusion matrix dla mode = 0.0



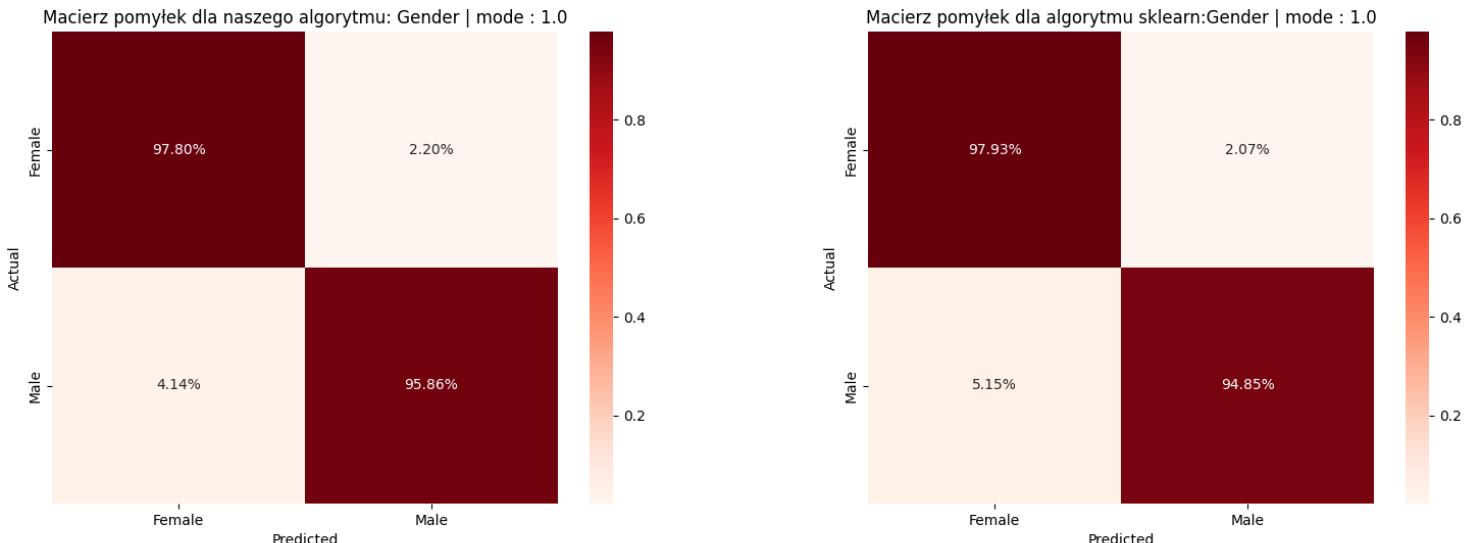
## 4.2.1 Tablica naszego algorytmu dla mode = 0.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,6000	42,4000	68,8000	1931,2000	<b>0,9722</b>	<b>0,9788</b>	0,9661	0,9656	<b>0,0344</b>	<b>0,9724</b>	<b>0,9445</b>	<b>0,0344</b>
Male	1931,2000	68,8000	42,4000	1958,6000	<b>0,9722</b>	0,9656	<b>0,9785</b>	<b>0,9788</b>	0,0212	0,9720	<b>0,9445</b>	0,0212
overall	3889,8000	111,2000	111,2000	3889,8000	<b>0,9722</b>	0,9722	0,9722	0,9722	0,0278	0,9722	0,9444	0,0278

## 4.2.1 Tablica porównawczego algorytmu dla mode = 0.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,6000	41,4000	99,6000	1900,4000	<b>0,9648</b>	<b>0,9793</b>	0,9516	0,9502	<b>0,0498</b>	<b>0,9653</b>	<b>0,9299</b>	<b>0,0498</b>
Male	1900,4000	99,6000	41,4000	1959,6000	<b>0,9648</b>	0,9502	<b>0,9787</b>	<b>0,9793</b>	0,0207	0,9642	<b>0,9299</b>	0,0207
overall	3860,0000	141,0000	141,0000	3860,0000	<b>0,9648</b>	0,9648	0,9648	0,9648	0,0352	0,9648	0,9295	0,0352

#### 4.3.1 Porównanie confusion matrix dla mode = 1.0



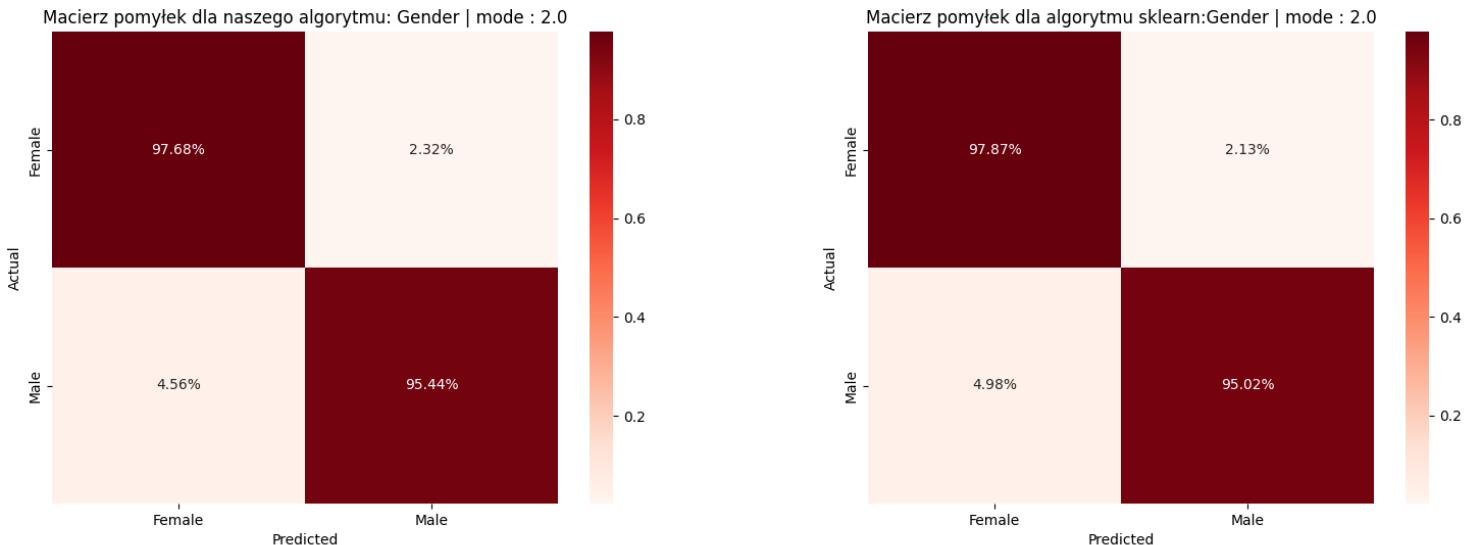
#### 4.3.1 Tablica naszego algorytmu dla mode = 1.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1957,0000	44,0000	82,8000	1917,2000	<b>0,9683</b>	<b>0,9780</b>	0,9594	0,9586	<b>0,0414</b>	<b>0,9686</b>	<b>0,9368</b>	<b>0,0414</b>
Male	1917,2000	82,8000	44,0000	1957,0000	<b>0,9683</b>	0,9586	<b>0,9776</b>	<b>0,9780</b>	0,0220	0,9680	<b>0,9368</b>	0,0220
overall	3874,2000	126,8000	126,8000	3874,2000	<b>0,9683</b>	0,9683	0,9683	0,9683	0,0317	0,9683	0,9366	0,0317

#### 4.3.1 Tablica porównawczego algorytmu dla mode = 1.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,6000	41,4000	103,0000	1897,0000	<b>0,9639</b>	<b>0,9793</b>	0,9501	0,9485	<b>0,0515</b>	<b>0,9645</b>	<b>0,9283</b>	<b>0,0515</b>
Male	1897,0000	103,0000	41,4000	1959,6000	<b>0,9639</b>	0,9485	<b>0,9786</b>	<b>0,9793</b>	0,0207	0,9633	<b>0,9283</b>	0,0207
overall	3856,6000	144,4000	144,4000	3856,6000	<b>0,9639</b>	0,9639	0,9639	0,9639	0,0361	0,9639	0,9278	0,0361

#### 4.4.1 Porównanie confusion matrix dla mode = 2.0



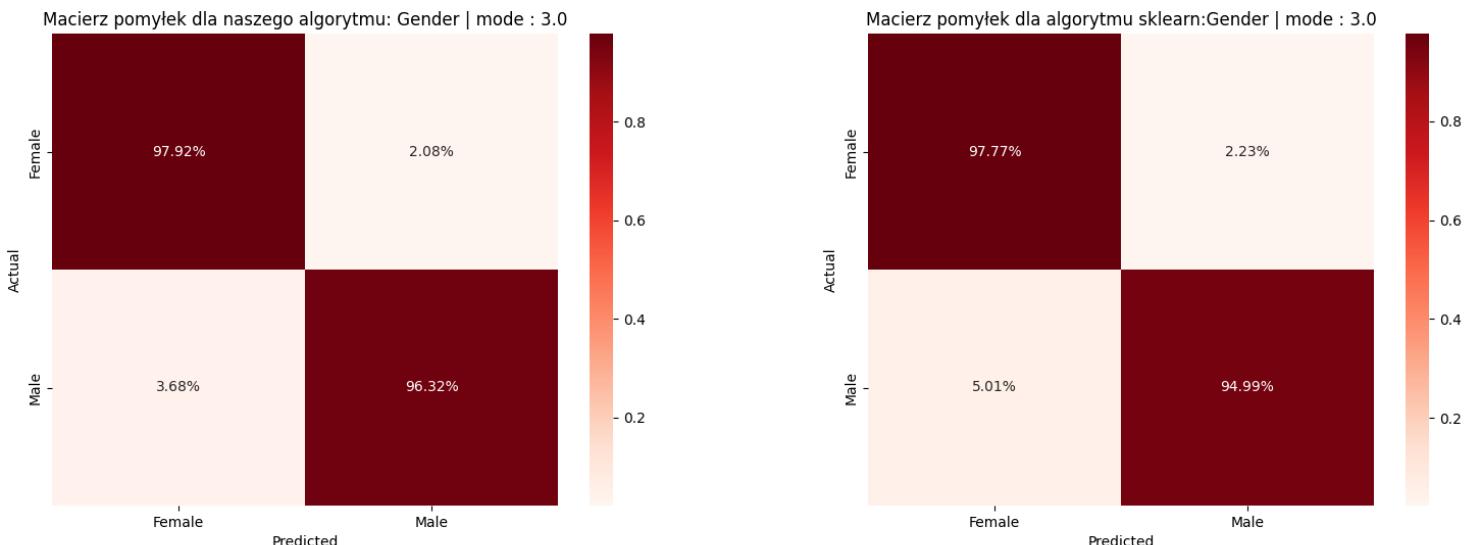
#### 4.4.1 Tablica naszego algorytmu dla mode = 2.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1954,6000	46,4000	91,2000	1908,8000	<b>0,9656</b>	<b>0,9768</b>	0,9554	0,9544	<b>0,0456</b>	<b>0,9660</b>	<b>0,9315</b>	<b>0,0456</b>
Male	1908,8000	91,2000	46,4000	1954,6000	<b>0,9656</b>	0,9544	<b>0,9763</b>	<b>0,9768</b>	0,0232	0,9652	<b>0,9315</b>	0,0232
overall	3863,4000	137,6000	137,6000	3863,4000	<b>0,9656</b>	0,9656	0,9656	0,9656	0,0344	0,9656	0,9312	0,0344

#### 4.4.1 Tablica porównawczego algorytmu dla mode = 2.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,4000	42,6000	99,6000	1900,4000	<b>0,9645</b>	<b>0,9787</b>	0,9516	0,9502	<b>0,0498</b>	<b>0,9650</b>	<b>0,9293</b>	<b>0,0498</b>
Male	1900,4000	99,6000	42,6000	1958,4000	<b>0,9645</b>	0,9502	<b>0,9781</b>	<b>0,9787</b>	0,0213	0,9639	<b>0,9293</b>	0,0213
overall	3858,8000	142,2000	142,2000	3858,8000	<b>0,9645</b>	0,9645	0,9645	0,9645	0,0355	0,9645	0,9289	0,0355

#### 4.5.1 Porównanie confusion matrix dla mode = 3.0



#### 4.5.1 Tablica naszego algorytmu dla mode = 3.0

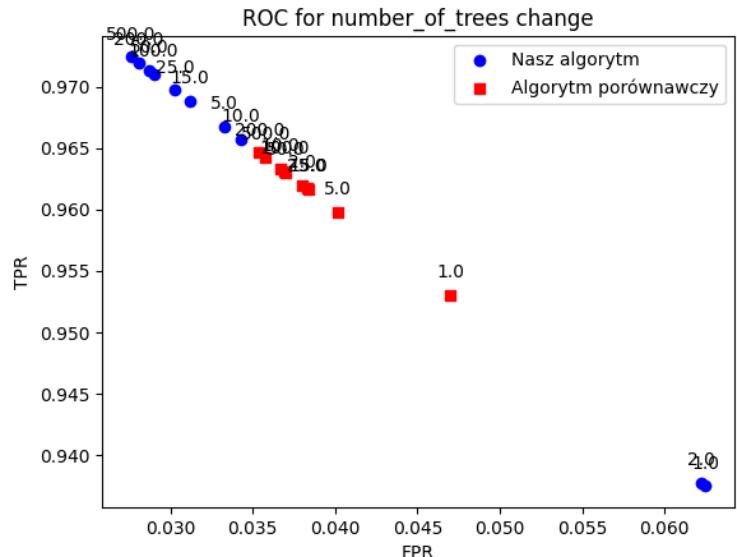
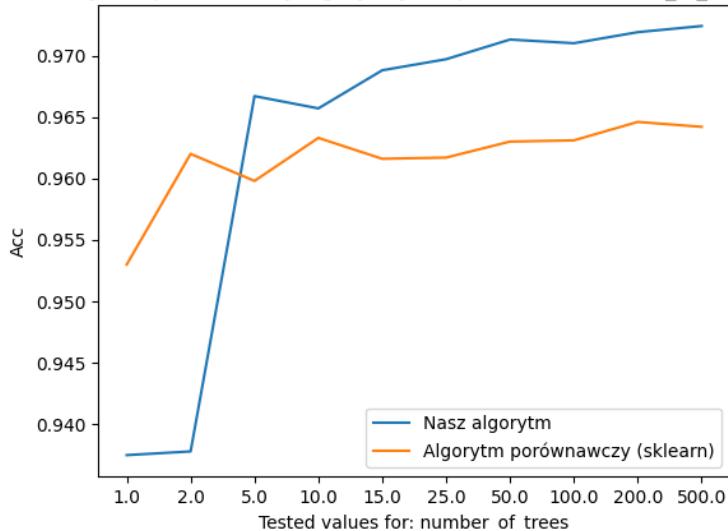
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,4000	41,6000	73,6000	1926,4000	<b>0,9712</b>	<b>0,9792</b>	0,9638	0,9632	<b>0,0368</b>	<b>0,9714</b>	<b>0,9425</b>	<b>0,0368</b>
Male	1926,4000	73,6000	41,6000	1959,4000	<b>0,9712</b>	0,9632	<b>0,9789</b>	<b>0,9792</b>	0,0208	0,9710	<b>0,9425</b>	0,0208
overall	3885,8000	115,2000	115,2000	3885,8000	<b>0,9712</b>	0,9712	0,9712	0,9712	0,0288	0,9712	0,9424	0,0288

#### 4.5.1 Tablica porównawczego algorytmu dla mode = 3.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,4000	44,6000	100,2000	1899,8000	<b>0,9638</b>	<b>0,9777</b>	0,9513	0,9499	<b>0,0501</b>	<b>0,9643</b>	<b>0,9280</b>	<b>0,0501</b>
Male	1899,8000	100,2000	44,6000	1956,4000	<b>0,9638</b>	0,9499	<b>0,9771</b>	<b>0,9777</b>	0,0223	0,9633	<b>0,9280</b>	0,0223
overall	3856,2000	144,8000	144,8000	3856,2000	<b>0,9638</b>	0,9638	0,9638	0,9638	0,0362	0,9638	0,9276	0,0362

## 5.1.1 Wykres precyzji oraz wykres ROC dla zmiany parametru: number\_of\_trees

Wykres porównawczy algorytmy dla parametru: number\_of\_trees



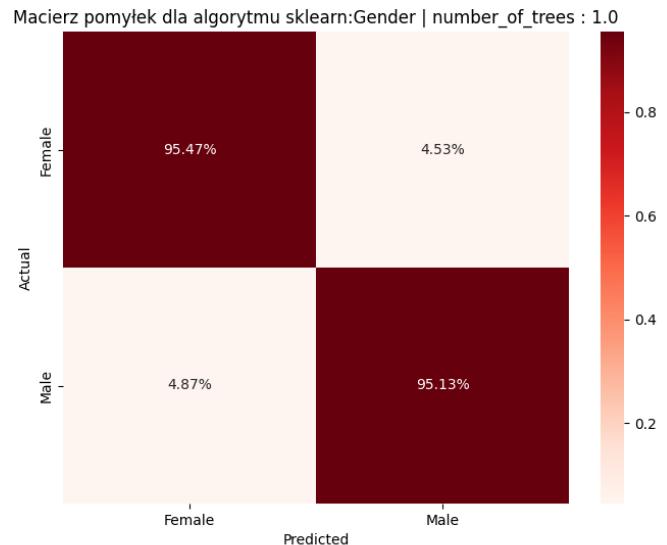
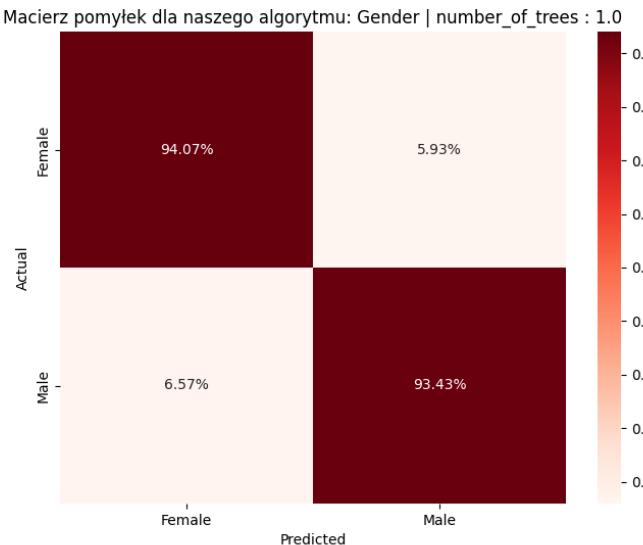
## 5.1.1 Tablica naszego algorytmu dla zmiany parametru: number\_of\_trees

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
1.0	3751,0000	250,0000	250,0000	3751,0000	0,9375	0,9375	0,9375	0,9375	<b>0,0625</b>	0,9375	0,8750	<b>0,0625</b>
2.0	3752,2000	248,8000	248,8000	3752,2000	0,9378	0,9378	0,9378	0,9378	0,0622	0,9378	0,8756	0,0622
5.0	3867,8000	133,2000	133,2000	3867,8000	0,9667	0,9667	0,9667	0,9667	0,0333	0,9667	0,9334	0,0333
10.0	3863,8000	137,2000	137,2000	3863,8000	0,9657	0,9657	0,9657	0,9657	0,0343	0,9657	0,9314	0,0343
15.0	3876,2000	124,8000	124,8000	3876,2000	0,9688	0,9688	0,9688	0,9688	0,0312	0,9688	0,9376	0,0312
25.0	3879,8000	121,2000	121,2000	3879,8000	0,9697	0,9697	0,9697	0,9697	0,0303	0,9697	0,9394	0,0303
50.0	3886,0000	115,0000	115,0000	3886,0000	0,9713	0,9713	0,9713	0,9713	0,0287	0,9713	0,9425	0,0287
100.0	3885,0000	116,0000	116,0000	3885,0000	0,9710	0,9710	0,9710	0,9710	0,0290	0,9710	0,9420	0,0290
200.0	3888,6000	112,4000	112,4000	3888,6000	0,9719	0,9719	0,9719	0,9719	0,0281	0,9719	0,9438	0,0281
500.0	3890,6000	110,4000	110,4000	3890,6000	<b>0,9724</b>	<b>0,9724</b>	<b>0,9724</b>	<b>0,9724</b>	0,0276	<b>0,9724</b>	<b>0,9448</b>	0,0276

## 5.1.1 Tablica porównawczego algorytmu dla zmiany parametru: number\_of\_trees

	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
1.0	3813,0000	188,0000	188,0000	3813,0000	0,9530	0,9530	0,9530	0,9530	<b>0,0470</b>	0,9530	0,9060	<b>0,0470</b>
2.0	3848,8000	152,2000	152,2000	3848,8000	0,9620	0,9620	0,9620	0,9620	0,0380	0,9620	0,9239	0,0380
5.0	3840,2000	160,8000	160,8000	3840,2000	0,9598	0,9598	0,9598	0,9598	0,0402	0,9598	0,9196	0,0402
10.0	3854,2000	146,8000	146,8000	3854,2000	0,9633	0,9633	0,9633	0,9633	0,0367	0,9633	0,9266	0,0367
15.0	3847,2000	153,8000	153,8000	3847,2000	0,9616	0,9616	0,9616	0,9616	0,0384	0,9616	0,9231	0,0384
25.0	3847,8000	153,2000	153,2000	3847,8000	0,9617	0,9617	0,9617	0,9617	0,0383	0,9617	0,9234	0,0383
50.0	3852,8000	148,2000	148,2000	3852,8000	0,9630	0,9630	0,9630	0,9630	0,0370	0,9630	0,9259	0,0370
100.0	3853,4000	147,6000	147,6000	3853,4000	0,9631	0,9631	0,9631	0,9631	0,0369	0,9631	0,9262	0,0369
200.0	3859,4000	141,6000	141,6000	3859,4000	<b>0,9646</b>	<b>0,9646</b>	<b>0,9646</b>	<b>0,9646</b>	0,0354	<b>0,9646</b>	<b>0,9292</b>	0,0354
500.0	3857,8000	143,2000	143,2000	3857,8000	0,9642	0,9642	0,9642	0,9642	0,0358	0,9642	0,9284	0,0358

## 5.2.1 Porównanie confusion matrix dla number\_of\_trees = 1.0



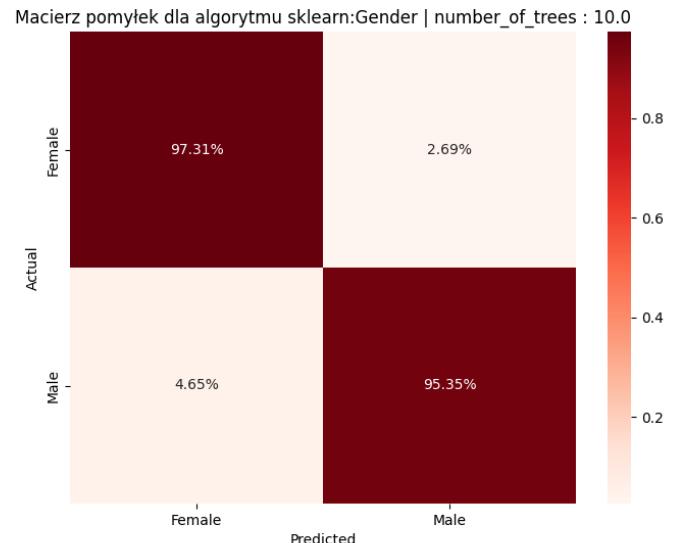
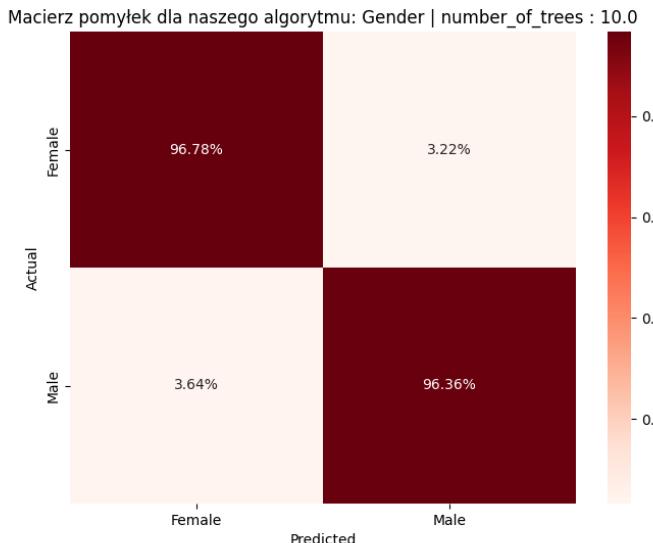
## 5.2.1 Tablica naszego algorytmu dla number\_of\_trees = 1.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1882,4000	118,6000	131,4000	1868,6000	<b>0,9375</b>	<b>0,9407</b>	0,9348	0,9343	<b>0,0657</b>	<b>0,9377</b>	<b>0,8750</b>	<b>0,0657</b>
Male	1868,6000	131,4000	118,6000	1882,4000	<b>0,9375</b>	0,9343	<b>0,9403</b>	<b>0,9407</b>	0,0593	0,9373	<b>0,8750</b>	0,0593
overall	3751,0000	250,0000	250,0000	3751,0000	<b>0,9375</b>	0,9375	0,9375	0,9375	0,0625	0,9375	<b>0,8750</b>	0,0625

## 5.2.1 Tablica porównawczego algorytmu dla number\_of\_trees = 1.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1910,4000	90,6000	97,4000	1902,6000	<b>0,9530</b>	<b>0,9547</b>	0,9515	0,9513	<b>0,0487</b>	<b>0,9531</b>	<b>0,9060</b>	<b>0,0487</b>
Male	1902,6000	97,4000	90,6000	1910,4000	<b>0,9530</b>	0,9513	<b>0,9545</b>	<b>0,9547</b>	0,0453	0,9529	<b>0,9060</b>	0,0453
overall	3813,0000	188,0000	188,0000	3813,0000	<b>0,9530</b>	0,9530	0,9530	0,9530	0,0470	0,9530	<b>0,9060</b>	0,0470

### 5.3.1 Porównanie confusion matrix dla number\_of\_trees = 10.0



### 5.3.1 Tablica naszego algorytmu dla number\_of\_trees = 10.0

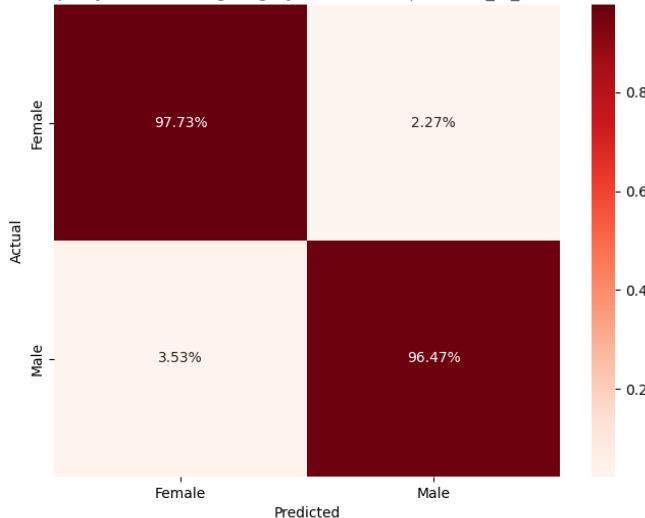
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1936,6000	64,4000	72,8000	1927,2000	<b>0,9657</b>	<b>0,9678</b>	0,9638	0,9636	<b>0,0364</b>	<b>0,9658</b>	<b>0,9314</b>	<b>0,0364</b>
Male	1927,2000	72,8000	64,4000	1936,6000	<b>0,9657</b>	0,9636	<b>0,9677</b>	<b>0,9678</b>	0,0322	0,9656	<b>0,9314</b>	0,0322
overall	3863,8000	137,2000	137,2000	3863,8000	<b>0,9657</b>	0,9657	0,9657	0,9657	0,0343	0,9657	<b>0,9314</b>	0,0343

### 5.3.1 Tablica porównawczego algorytmu dla number\_of\_trees = 10.0

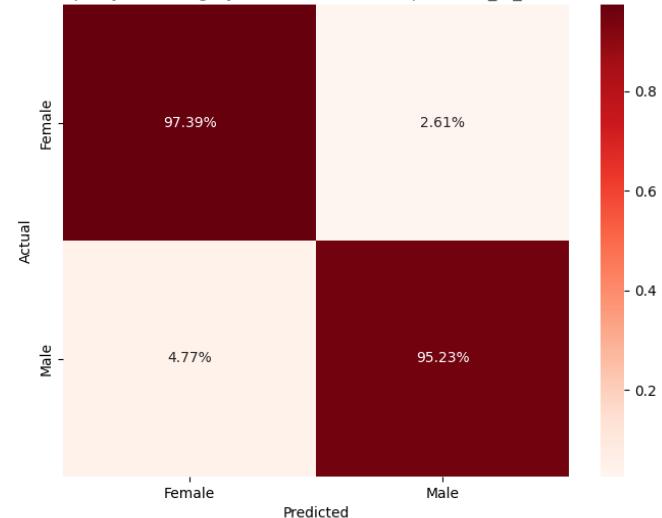
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1947,2000	53,8000	93,0000	1907,0000	<b>0,9633</b>	<b>0,9731</b>	0,9544	0,9535	<b>0,0465</b>	<b>0,9637</b>	<b>0,9268</b>	<b>0,0465</b>
Male	1907,0000	93,0000	53,8000	1947,2000	<b>0,9633</b>	0,9535	<b>0,9726</b>	<b>0,9731</b>	0,0269	0,9630	<b>0,9268</b>	0,0269
overall	3854,2000	146,8000	146,8000	3854,2000	<b>0,9633</b>	0,9633	0,9633	0,9633	0,0367	0,9633	0,9266	0,0367

#### 5.4.1 Porównanie confusion matrix dla number\_of\_trees = 100.0

Macierz pomyłek dla naszego algorytmu: Gender | number\_of\_trees : 100.0



Macierz pomyłek dla algorytmu sklearn:Gender | number\_of\_trees : 100.0



#### 5.4.1 Tablica naszego algorytmu dla number\_of\_trees = 100.0

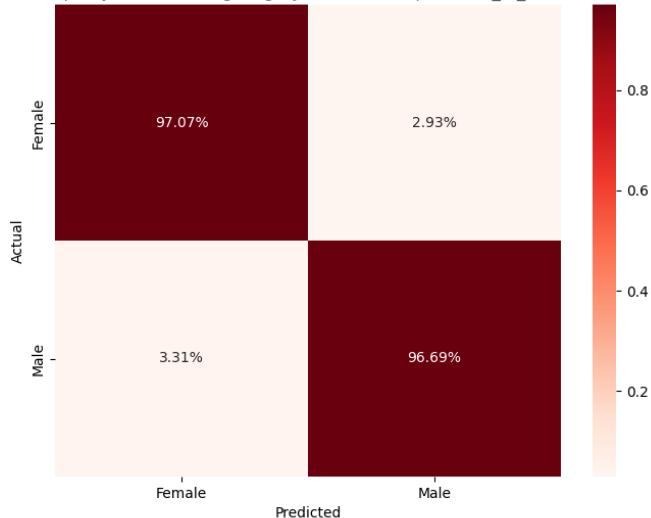
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1955,6000	45,4000	70,6000	1929,4000	<b>0,9710</b>	<b>0,9773</b>	0,9652	0,9647	<b>0,0353</b>	<b>0,9712</b>	<b>0,9421</b>	<b>0,0353</b>
Male	1929,4000	70,6000	45,4000	1955,6000	<b>0,9710</b>	0,9647	<b>0,9770</b>	<b>0,9773</b>	0,0227	0,9708	<b>0,9421</b>	0,0227
overall	3885,0000	116,0000	116,0000	3885,0000	<b>0,9710</b>	0,9710	0,9710	0,9710	0,0290	0,9710	0,9420	0,0290

#### 5.4.1 Tablica porównawczego algorytmu dla number\_of\_trees = 100.0

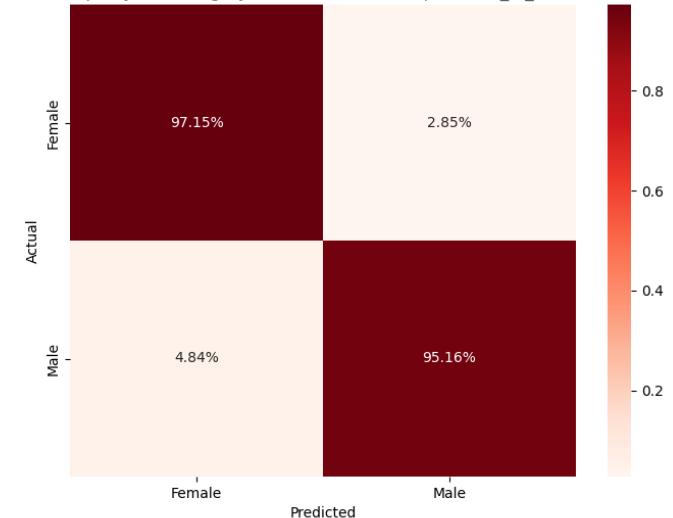
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1948,8000	52,2000	95,4000	1904,6000	<b>0,9631</b>	<b>0,9739</b>	0,9533	0,9523	<b>0,0477</b>	<b>0,9635</b>	<b>0,9264</b>	<b>0,0477</b>
Male	1904,6000	95,4000	52,2000	1948,8000	<b>0,9631</b>	0,9523	<b>0,9733</b>	<b>0,9739</b>	0,0261	0,9627	<b>0,9264</b>	0,0261
overall	3853,4000	147,6000	147,6000	3853,4000	<b>0,9631</b>	0,9631	0,9631	0,9631	0,0369	0,9631	0,9262	0,0369

### 5.5.1 Porównanie confusion matrix dla number\_of\_trees = 15.0

Macierz pomyłek dla naszego algorytmu: Gender | number\_of\_trees : 15.0



Macierz pomyłek dla algorytmu sklearn:Gender | number\_of\_trees : 15.0



### 5.5.1 Tablica naszego algorytmu dla number\_of\_trees = 15.0

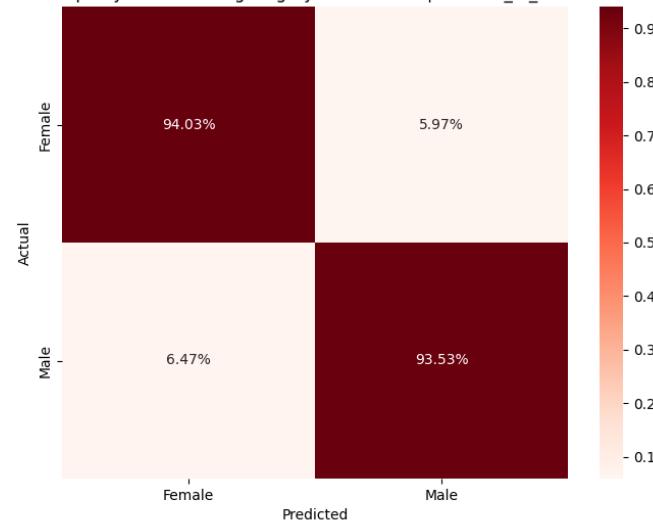
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1942,4000	58,6000	66,2000	1933,8000	<b>0,9688</b>	<b>0,9707</b>	0,9670	0,9669	<b>0,0331</b>	<b>0,9688</b>	<b>0,9376</b>	<b>0,0331</b>
Male	1933,8000	66,2000	58,6000	1942,4000	<b>0,9688</b>	0,9669	<b>0,9706</b>	<b>0,9707</b>	0,0293	0,9687	<b>0,9376</b>	0,0293
overall	3876,2000	124,8000	124,8000	3876,2000	<b>0,9688</b>	0,9688	0,9688	0,9688	0,0312	<b>0,9688</b>	<b>0,9376</b>	0,0312

### 5.5.1 Tablica porównawczego algorytmu dla number\_of\_trees = 15.0

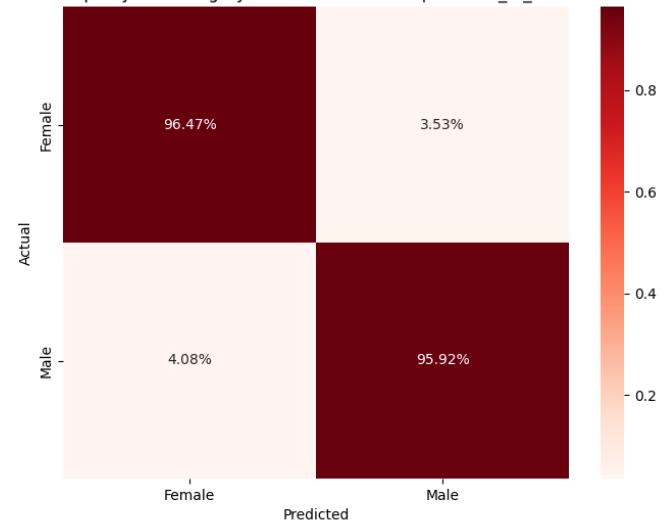
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1944,0000	57,0000	96,8000	1903,2000	<b>0,9616</b>	<b>0,9715</b>	0,9526	0,9516	<b>0,0484</b>	<b>0,9620</b>	<b>0,9233</b>	<b>0,0484</b>
Male	1903,2000	96,8000	57,0000	1944,0000	<b>0,9616</b>	0,9516	<b>0,9709</b>	<b>0,9715</b>	0,0285	0,9612	<b>0,9233</b>	0,0285
overall	3847,2000	153,8000	153,8000	3847,2000	<b>0,9616</b>	0,9616	0,9616	0,9616	0,0384	0,9616	0,9231	0,0384

## 5.6.1 Porównanie confusion matrix dla number\_of\_trees = 2.0

Macierz pomyłek dla naszego algorytmu: Gender | number\_of\_trees : 2.0



Macierz pomyłek dla algorytmu sklearn:Gender | number\_of\_trees : 2.0



## 5.6.1 Tablica naszego algorytmu dla number\_of\_trees = 2.0

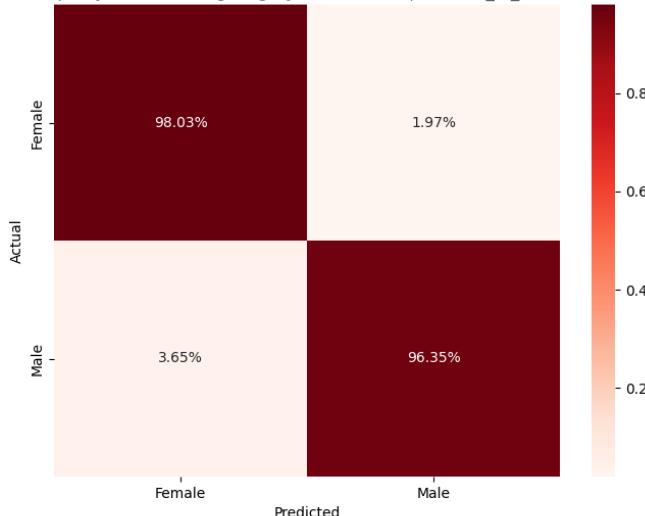
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1881,6000	119,4000	129,4000	1870,6000	<b>0,9378</b>	<b>0,9403</b>	0,9357	0,9353	<b>0,0647</b>	<b>0,9380</b>	<b>0,8756</b>	<b>0,0647</b>
Male	1870,6000	129,4000	119,4000	1881,6000	<b>0,9378</b>	0,9353	<b>0,9400</b>	<b>0,9403</b>	0,0597	0,9376	<b>0,8756</b>	0,0597
overall	3752,2000	248,8000	248,8000	3752,2000	<b>0,9378</b>	0,9378	0,9378	0,9378	0,0622	0,9378	<b>0,8756</b>	0,0622

## 5.6.1 Tablica porównawczego algorytmu dla number\_of\_trees = 2.0

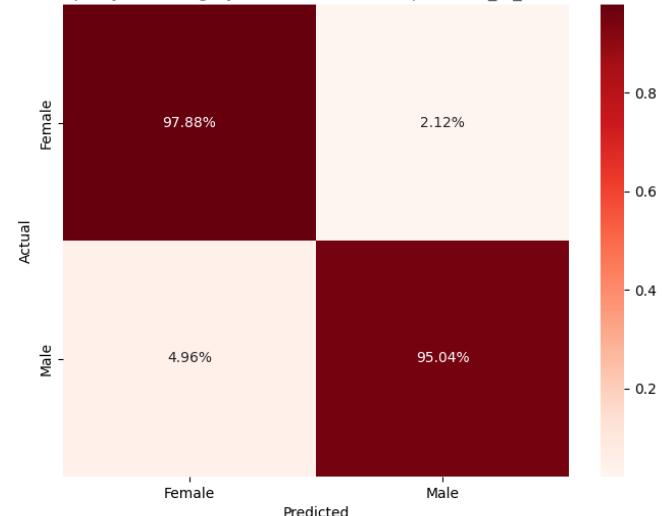
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1930,4000	70,6000	81,6000	1918,4000	<b>0,9620</b>	<b>0,9647</b>	0,9594	0,9592	<b>0,0408</b>	<b>0,9620</b>	<b>0,9239</b>	<b>0,0408</b>
Male	1918,4000	81,6000	70,6000	1930,4000	<b>0,9620</b>	0,9592	<b>0,9645</b>	<b>0,9647</b>	0,0353	0,9618	<b>0,9239</b>	0,0353
overall	3848,8000	152,2000	152,2000	3848,8000	<b>0,9620</b>	0,9620	0,9620	0,9620	0,0380	<b>0,9620</b>	<b>0,9239</b>	0,0380

## 5.7.1 Porównanie confusion matrix dla number\_of\_trees = 200.0

Macierz pomyłek dla naszego algorytmu: Gender | number\_of\_trees : 200.0



Macierz pomyłek dla algorytmu sklearn:Gender | number\_of\_trees : 200.0



## 5.7.1 Tablica naszego algorytmu dla number\_of\_trees = 200.0

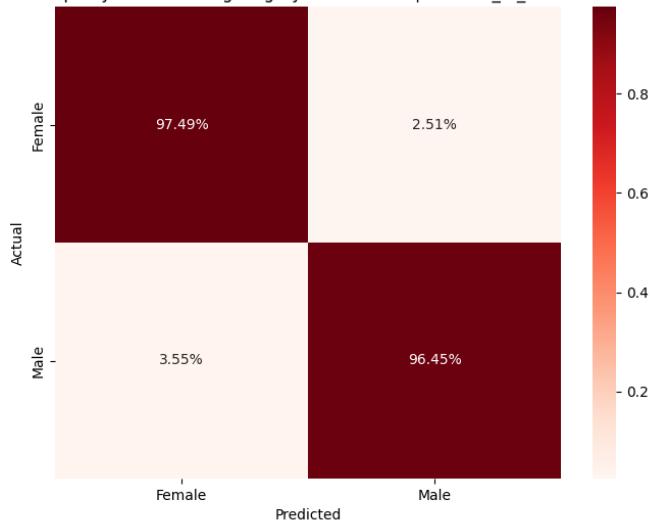
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1961,6000	39,4000	73,0000	1927,0000	<b>0,9719</b>	<b>0,9803</b>	0,9641	0,9635	<b>0,0365</b>	<b>0,9721</b>	<b>0,9439</b>	<b>0,0365</b>
Male	1927,0000	73,0000	39,4000	1961,6000	<b>0,9719</b>	0,9635	<b>0,9800</b>	<b>0,9803</b>	0,0197	0,9717	<b>0,9439</b>	0,0197
overall	3888,6000	112,4000	112,4000	3888,6000	<b>0,9719</b>	0,9719	0,9719	0,9719	0,0281	0,9719	0,9438	0,0281

## 5.7.1 Tablica porównawczego algorytmu dla number\_of\_trees = 200.0

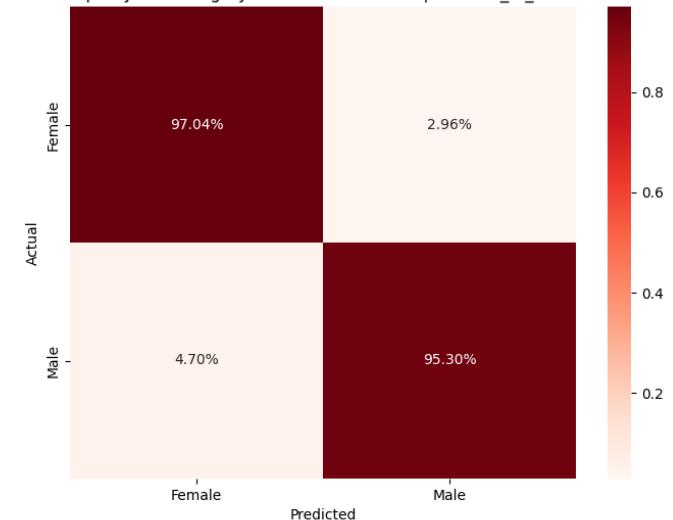
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,6000	42,4000	99,2000	1900,8000	<b>0,9646</b>	<b>0,9788</b>	0,9518	0,9504	<b>0,0496</b>	<b>0,9651</b>	<b>0,9296</b>	<b>0,0496</b>
Male	1900,8000	99,2000	42,4000	1958,6000	<b>0,9646</b>	0,9504	<b>0,9782</b>	<b>0,9788</b>	0,0212	0,9641	<b>0,9296</b>	0,0212
overall	3859,4000	141,6000	141,6000	3859,4000	<b>0,9646</b>	0,9646	0,9646	0,9646	0,0354	0,9646	0,9292	0,0354

## 5.8.1 Porównanie confusion matrix dla number\_of\_trees = 25.0

Macierz pomyłek dla naszego algorytmu: Gender | number\_of\_trees : 25.0



Macierz pomyłek dla algorytmu sklearn:Gender | number\_of\_trees : 25.0



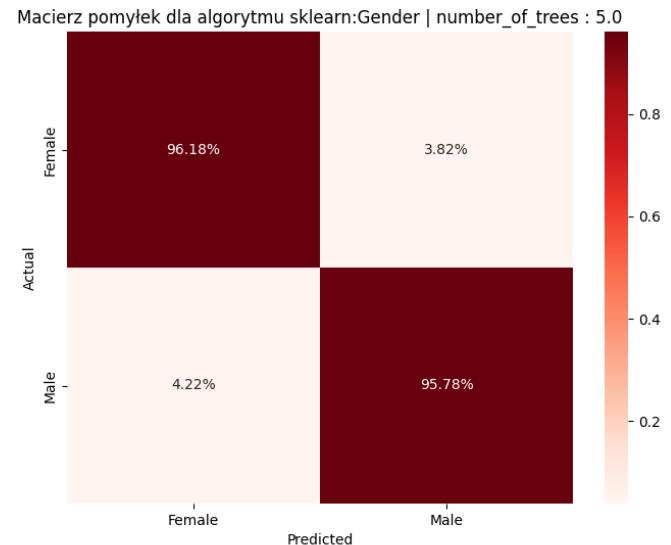
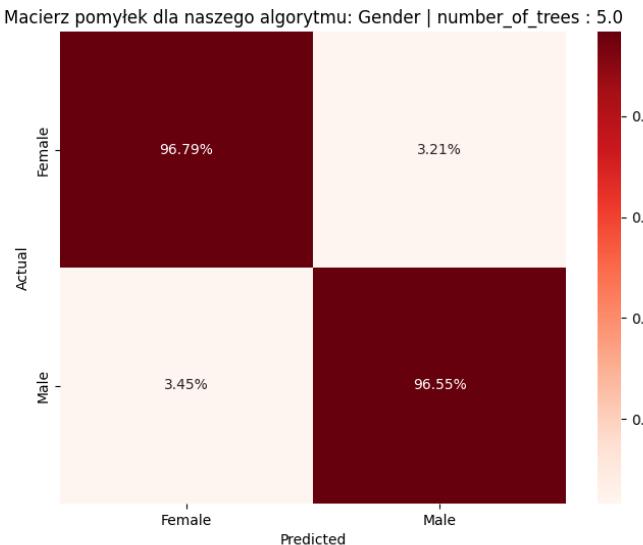
## 5.8.1 Tablica naszego algorytmu dla number\_of\_trees = 25.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1950,8000	50,2000	71,0000	1929,0000	<b>0,9697</b>	<b>0,9749</b>	0,9649	0,9645	<b>0,0355</b>	<b>0,9699</b>	<b>0,9395</b>	<b>0,0355</b>
Male	1929,0000	71,0000	50,2000	1950,8000	<b>0,9697</b>	0,9645	<b>0,9746</b>	<b>0,9749</b>	0,0251	0,9695	<b>0,9395</b>	0,0251
overall	3879,8000	121,2000	121,2000	3879,8000	<b>0,9697</b>	0,9697	0,9697	0,9697	0,0303	0,9697	0,9394	0,0303

## 5.8.1 Tablica porównawczego algorytmu dla number\_of\_trees = 25.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1941,8000	59,2000	94,0000	1906,0000	<b>0,9617</b>	<b>0,9704</b>	0,9538	0,9530	<b>0,0470</b>	<b>0,9620</b>	<b>0,9236</b>	<b>0,0470</b>
Male	1906,0000	94,0000	59,2000	1941,8000	<b>0,9617</b>	0,9530	<b>0,9699</b>	<b>0,9704</b>	0,0296	0,9614	<b>0,9236</b>	0,0296
overall	3847,8000	153,2000	153,2000	3847,8000	<b>0,9617</b>	0,9617	0,9617	0,9617	0,0383	0,9617	0,9234	0,0383

## 5.9.1 Porównanie confusion matrix dla number\_of\_trees = 5.0



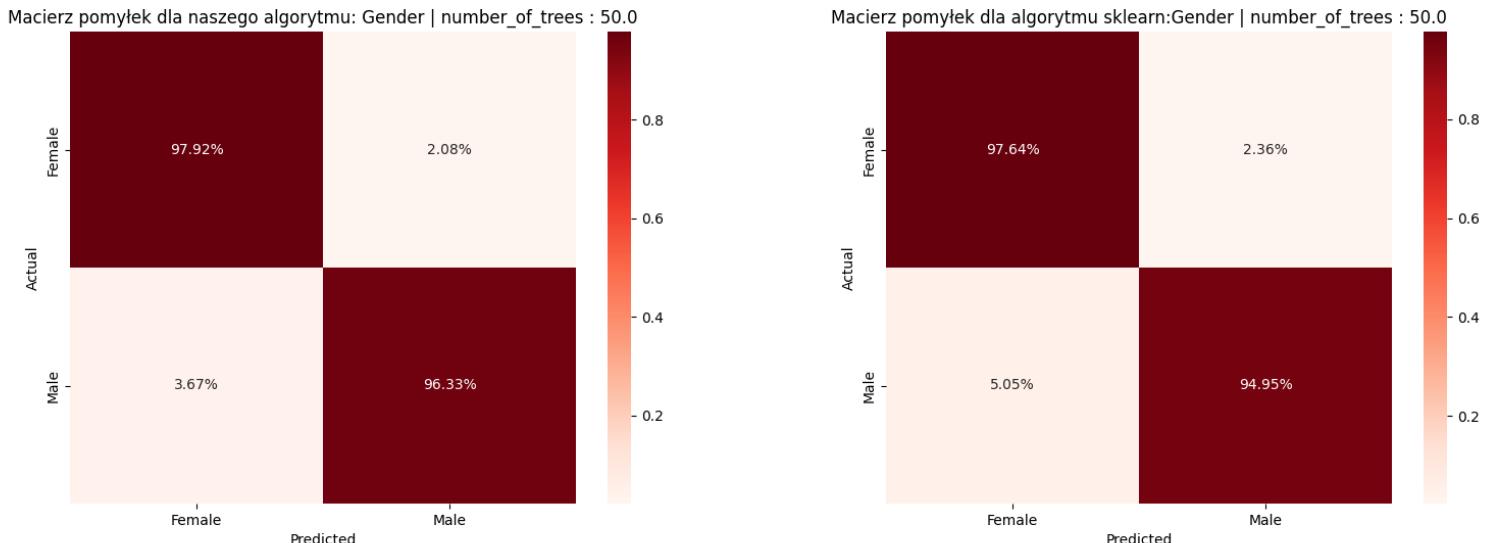
## 5.9.1 Tablica naszego algorytmu dla number\_of\_trees = 5.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1936,8000	64,2000	69,0000	1931,0000	<b>0,9667</b>	<b>0,9679</b>	0,9656	0,9655	<b>0,0345</b>	<b>0,9667</b>	<b>0,9334</b>	<b>0,0345</b>
Male	1931,0000	69,0000	64,2000	1936,8000	<b>0,9667</b>	0,9655	<b>0,9678</b>	<b>0,9679</b>	0,0321	0,9666	<b>0,9334</b>	0,0321
overall	3867,8000	133,2000	133,2000	3867,8000	<b>0,9667</b>	0,9667	0,9667	0,9667	0,0333	<b>0,9667</b>	<b>0,9334</b>	0,0333

## 5.9.1 Tablica porównawczego algorytmu dla number\_of\_trees = 5.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1924,6000	76,4000	84,4000	1915,6000	<b>0,9598</b>	<b>0,9618</b>	0,9580	0,9578	<b>0,0422</b>	<b>0,9599</b>	<b>0,9196</b>	<b>0,0422</b>
Male	1915,6000	84,4000	76,4000	1924,6000	<b>0,9598</b>	0,9578	<b>0,9616</b>	<b>0,9618</b>	0,0382	0,9597	<b>0,9196</b>	0,0382
overall	3840,2000	160,8000	160,8000	3840,2000	<b>0,9598</b>	0,9598	0,9598	0,9598	0,0402	0,9598	<b>0,9196</b>	0,0402

## 5.10.1 Porównanie confusion matrix dla number\_of\_trees = 50.0



## 5.10.1 Tablica naszego algorytmu dla number\_of\_trees = 50.0

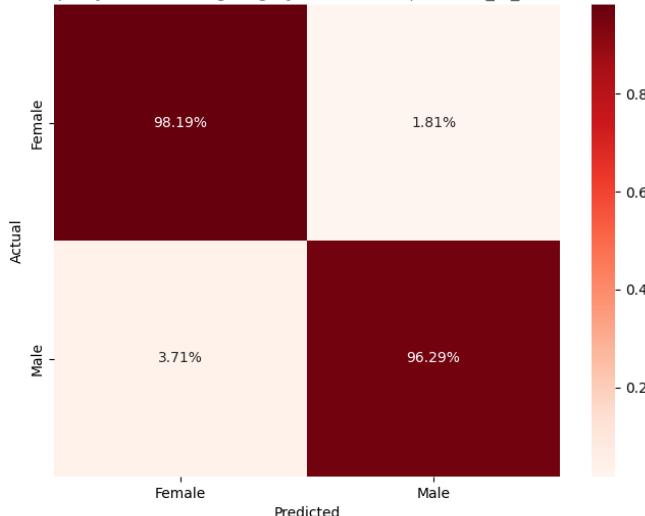
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,4000	41,6000	73,4000	1926,6000	<b>0,9713</b>	<b>0,9792</b>	0,9639	0,9633	<b>0,0367</b>	<b>0,9715</b>	<b>0,9426</b>	<b>0,0367</b>
Male	1926,6000	73,4000	41,6000	1959,4000	<b>0,9713</b>	0,9633	<b>0,9789</b>	<b>0,9792</b>	0,0208	0,9710	<b>0,9426</b>	0,0208
overall	3886,0000	115,0000	115,0000	3886,0000	<b>0,9713</b>	0,9713	0,9713	0,9713	0,0287	0,9713	0,9425	0,0287

## 5.10.1 Tablica porównawczego algorytmu dla number\_of\_trees = 50.0

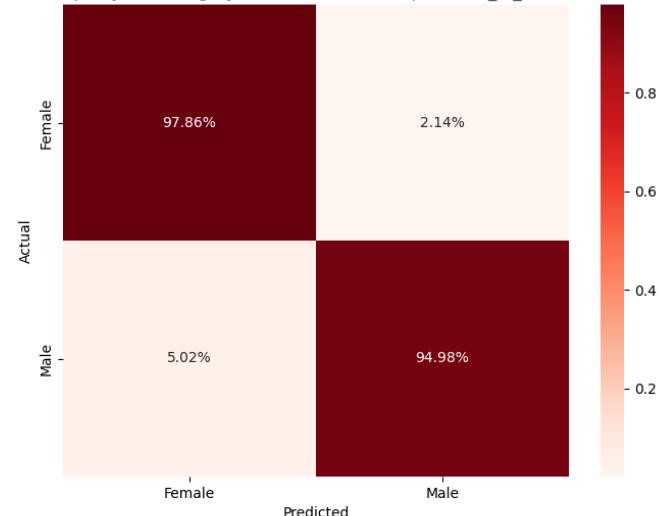
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1953,8000	47,2000	101,0000	1899,0000	<b>0,9630</b>	<b>0,9764</b>	0,9508	0,9495	<b>0,0505</b>	<b>0,9634</b>	<b>0,9263</b>	<b>0,0505</b>
Male	1899,0000	101,0000	47,2000	1953,8000	<b>0,9630</b>	0,9495	<b>0,9757</b>	<b>0,9764</b>	0,0236	0,9624	<b>0,9263</b>	0,0236
overall	3852,8000	148,2000	148,2000	3852,8000	<b>0,9630</b>	0,9630	0,9630	0,9630	0,0370	0,9630	0,9259	0,0370

## 5.11.1 Porównanie confusion matrix dla number\_of\_trees = 500.0

Macierz pomyłek dla naszego algorytmu: Gender | number\_of\_trees : 500.0



Macierz pomyłek dla algorytmu sklearn:Gender | number\_of\_trees : 500.0



## 5.11.1 Tablica naszego algorytmu dla number\_of\_trees = 500.0

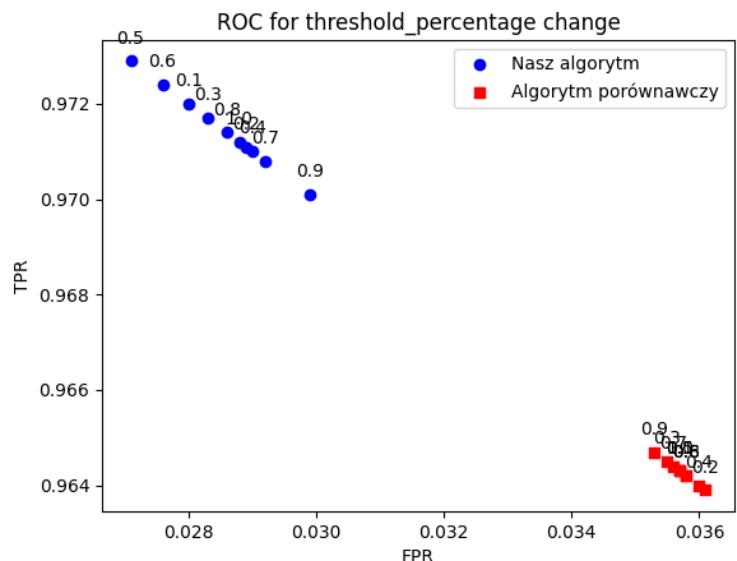
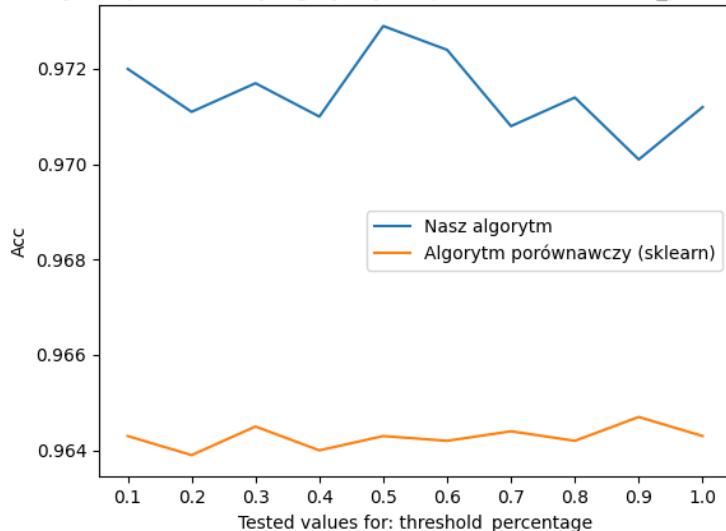
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1964,8000	36,2000	74,2000	1925,8000	<b>0,9724</b>	<b>0,9819</b>	0,9636	0,9629	<b>0,0371</b>	<b>0,9727</b>	<b>0,9450</b>	<b>0,0371</b>
Male	1925,8000	74,2000	36,2000	1964,8000	<b>0,9724</b>	0,9629	<b>0,9815</b>	<b>0,9819</b>	0,0181	0,9721	<b>0,9450</b>	0,0181
overall	3890,6000	110,4000	110,4000	3890,6000	<b>0,9724</b>	0,9724	0,9724	0,9724	0,0276	0,9724	0,9448	0,0276

## 5.11.1 Tablica porównawczego algorytmu dla number\_of\_trees = 500.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,2000	42,8000	100,4000	1899,6000	<b>0,9642</b>	<b>0,9786</b>	0,9512	0,9498	<b>0,0502</b>	<b>0,9647</b>	<b>0,9288</b>	<b>0,0502</b>
Male	1899,6000	100,4000	42,8000	1958,2000	<b>0,9642</b>	0,9498	<b>0,9780</b>	<b>0,9786</b>	0,0214	0,9637	<b>0,9288</b>	0,0214
overall	3857,8000	143,2000	143,2000	3857,8000	<b>0,9642</b>	0,9642	0,9642	0,9642	0,0358	0,9642	0,9284	0,0358

## 6.1.1 Wykres precyzji oraz wykres ROC dla zmiany parametru: threshold\_percentage

Wykres porównawczy algorytmy dla parametru: threshold\_percentage



### 6.1.1 Tablica naszego algorytmu dla zmiany parametru: threshold\_percentage

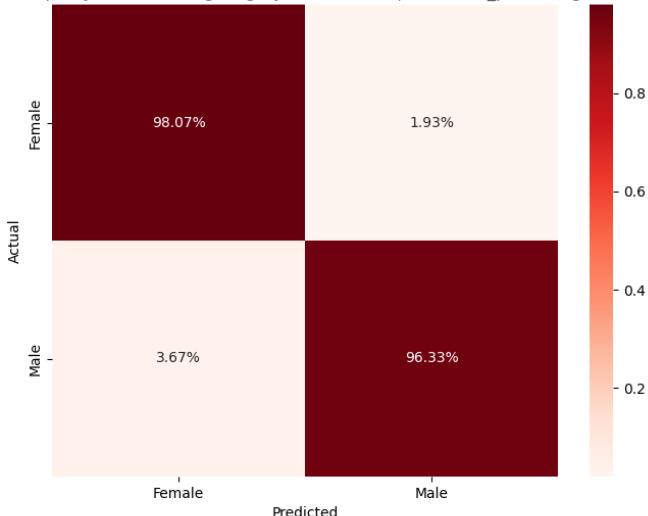
	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
0.1	3889,0000	112,0000	112,0000	3889,0000	0,9720	0,9720	0,9720	0,9720	0,0280	0,9720	0,9440	0,0280
0.2	3885,4000	115,6000	115,6000	3885,4000	0,9711	0,9711	0,9711	0,9711	0,0289	0,9711	0,9422	0,0289
0.3	3887,8000	113,2000	113,2000	3887,8000	0,9717	0,9717	0,9717	0,9717	0,0283	0,9717	0,9434	0,0283
0.4	3885,0000	116,0000	116,0000	3885,0000	0,9710	0,9710	0,9710	0,9710	0,0290	0,9710	0,9420	0,0290
0.5	3892,4000	108,6000	108,6000	3892,4000	<b>0,9729</b>	<b>0,9729</b>	<b>0,9729</b>	<b>0,9729</b>	0,0271	<b>0,9729</b>	<b>0,9457</b>	0,0271
0.6	3890,4000	110,6000	110,6000	3890,4000	0,9724	0,9724	0,9724	0,9724	0,0276	0,9724	0,9447	0,0276
0.7	3884,0000	117,0000	117,0000	3884,0000	0,9708	0,9708	0,9708	0,9708	0,0292	0,9708	0,9415	0,0292
0.8	3886,4000	114,6000	114,6000	3886,4000	0,9714	0,9714	0,9714	0,9714	0,0286	0,9714	0,9427	0,0286
0.9	3881,4000	119,6000	119,6000	3881,4000	0,9701	0,9701	0,9701	0,9701	<b>0,0299</b>	0,9701	0,9402	<b>0,0299</b>
1.0	3885,6000	115,4000	115,4000	3885,6000	0,9712	0,9712	0,9712	0,9712	0,0288	0,9712	0,9423	0,0288

### 6.1.1 Tablica porównawczego algorytmu dla zmiany parametru: threshold\_percentage

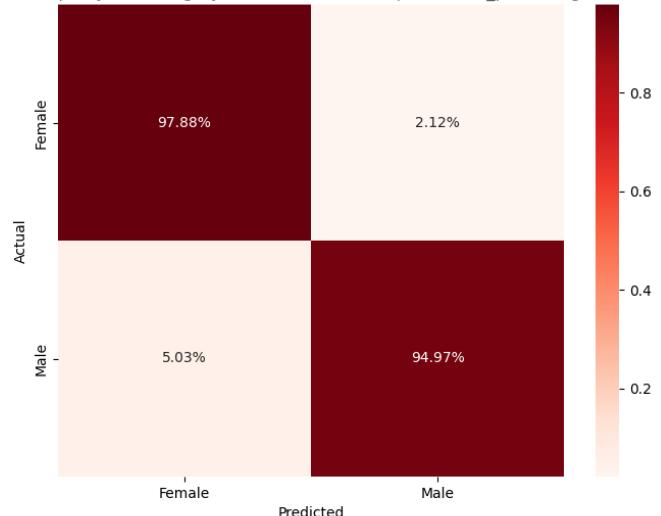
	TN	FP	FN	TP	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
0.1	3858,0000	143,0000	143,0000	3858,0000	0,9643	0,9643	0,9643	0,9643	0,0357	0,9643	0,9285	0,0357
0.2	3856,4000	144,6000	144,6000	3856,4000	0,9639	0,9639	0,9639	0,9639	<b>0,0361</b>	0,9639	0,9277	<b>0,0361</b>
0.3	3858,8000	142,2000	142,2000	3858,8000	0,9645	0,9645	0,9645	0,9645	0,0355	0,9645	0,9289	0,0355
0.4	3857,0000	144,0000	144,0000	3857,0000	0,9640	0,9640	0,9640	0,9640	0,0360	0,9640	0,9280	0,0360
0.5	3858,0000	143,0000	143,0000	3858,0000	0,9643	0,9643	0,9643	0,9643	0,0357	0,9643	0,9285	0,0357
0.6	3857,6000	143,4000	143,4000	3857,6000	0,9642	0,9642	0,9642	0,9642	0,0358	0,9642	0,9283	0,0358
0.7	3858,4000	142,6000	142,6000	3858,4000	0,9644	0,9644	0,9644	0,9644	0,0356	0,9644	0,9287	0,0356
0.8	3857,6000	143,4000	143,4000	3857,6000	0,9642	0,9642	0,9642	0,9642	0,0358	0,9642	0,9283	0,0358
0.9	3859,6000	141,4000	141,4000	3859,6000	<b>0,9647</b>	<b>0,9647</b>	<b>0,9647</b>	<b>0,9647</b>	0,0353	<b>0,9647</b>	<b>0,9293</b>	0,0353
1.0	3858,2000	142,8000	142,8000	3858,2000	0,9643	0,9643	0,9643	0,9643	0,0357	0,9643	0,9286	0,0357

## 6.2.1 Porównanie confusion matrix dla threshold\_percentage = 0.1

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 0.1



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 0.1



## 6.2.1 Tablica naszego algorytmu dla threshold\_percentage = 0.1

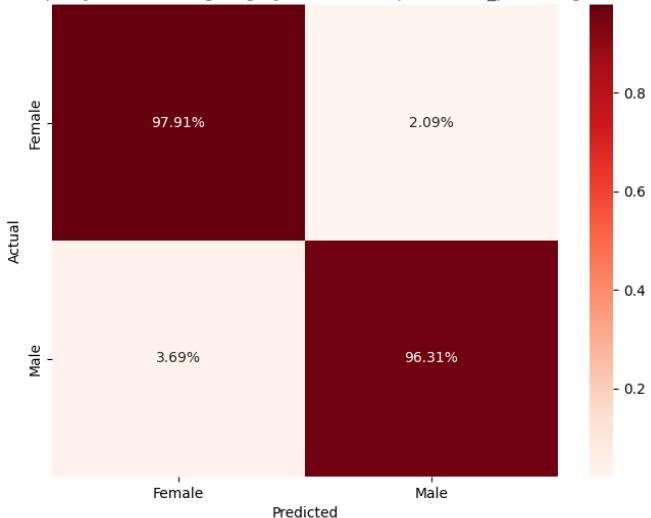
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1962,4000	38,6000	73,4000	1926,6000	<b>0,9720</b>	<b>0,9807</b>	0,9639	0,9633	<b>0,0367</b>	<b>0,9722</b>	<b>0,9442</b>	<b>0,0367</b>
Male	1926,6000	73,4000	38,6000	1962,4000	<b>0,9720</b>	0,9633	<b>0,9804</b>	<b>0,9807</b>	0,0193	0,9718	<b>0,9442</b>	0,0193
overall	3889,0000	112,0000	112,0000	3889,0000	<b>0,9720</b>	0,9720	0,9720	0,9720	0,0280	0,9720	0,9440	0,0280

## 6.2.1 Tablica porównawczego algorytmu dla threshold\_percentage = 0.1

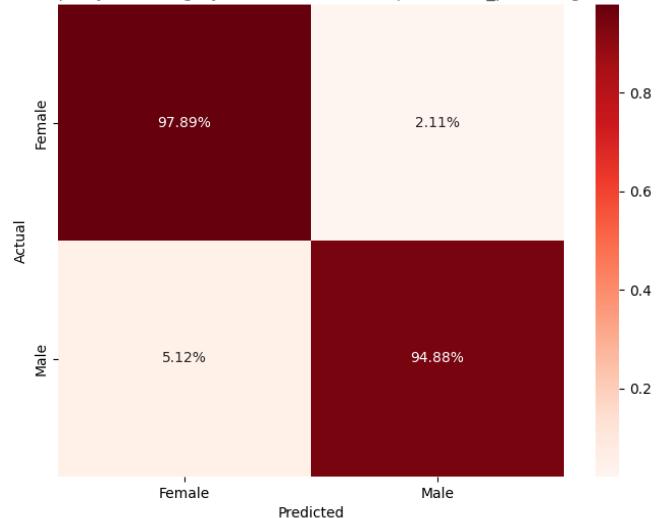
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,6000	42,4000	100,6000	1899,4000	<b>0,9643</b>	<b>0,9788</b>	0,9511	0,9497	<b>0,0503</b>	<b>0,9648</b>	<b>0,9289</b>	<b>0,0503</b>
Male	1899,4000	100,6000	42,4000	1958,6000	<b>0,9643</b>	0,9497	<b>0,9782</b>	<b>0,9788</b>	0,0212	0,9637	<b>0,9289</b>	0,0212
overall	3858,0000	143,0000	143,0000	3858,0000	<b>0,9643</b>	0,9643	0,9643	0,9643	0,0357	0,9643	0,9285	0,0357

### 6.3.1 Porównanie confusion matrix dla threshold\_percentage = 0.2

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 0.2



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 0.2



### 6.3.1 Tablica naszego algorytmu dla threshold\_percentage = 0.2

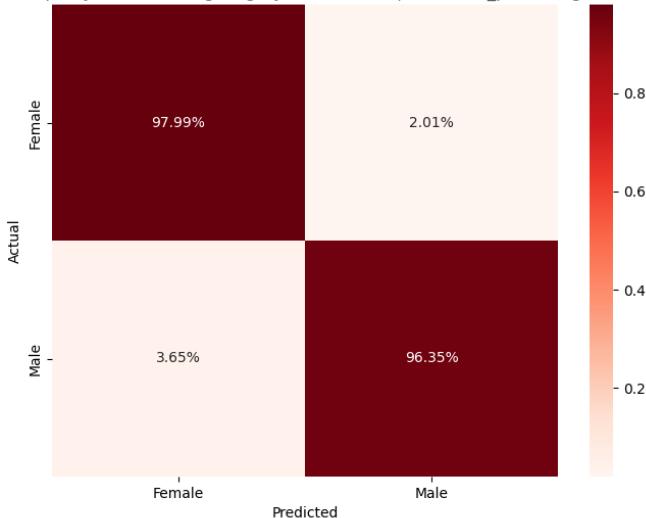
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,2000	41,8000	73,8000	1926,2000	<b>0,9711</b>	<b>0,9791</b>	0,9637	0,9631	<b>0,0369</b>	<b>0,9713</b>	<b>0,9423</b>	<b>0,0369</b>
Male	1926,2000	73,8000	41,8000	1959,2000	<b>0,9711</b>	0,9631	<b>0,9788</b>	<b>0,9791</b>	0,0209	0,9709	<b>0,9423</b>	0,0209
overall	3885,4000	115,6000	115,6000	3885,4000	<b>0,9711</b>	0,9711	0,9711	0,9711	0,0289	0,9711	0,9422	0,0289

### 6.3.1 Tablica porównawczego algorytmu dla threshold\_percentage = 0.2

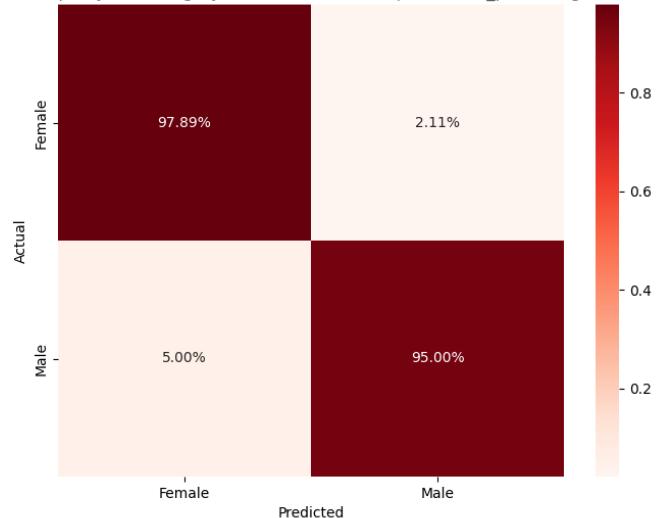
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,8000	42,2000	102,4000	1897,6000	<b>0,9639</b>	<b>0,9789</b>	0,9503	0,9488	<b>0,0512</b>	<b>0,9644</b>	<b>0,9281</b>	<b>0,0512</b>
Male	1897,6000	102,4000	42,2000	1958,8000	<b>0,9639</b>	0,9488	<b>0,9782</b>	<b>0,9789</b>	0,0211	0,9633	<b>0,9281</b>	0,0211
overall	3856,4000	144,6000	144,6000	3856,4000	<b>0,9639</b>	0,9639	0,9639	0,9639	0,0361	0,9639	0,9277	0,0361

## 6.4.1 Porównanie confusion matrix dla threshold\_percentage = 0.3

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 0.3



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 0.3



## 6.4.1 Tablica naszego algorytmu dla threshold\_percentage = 0.3

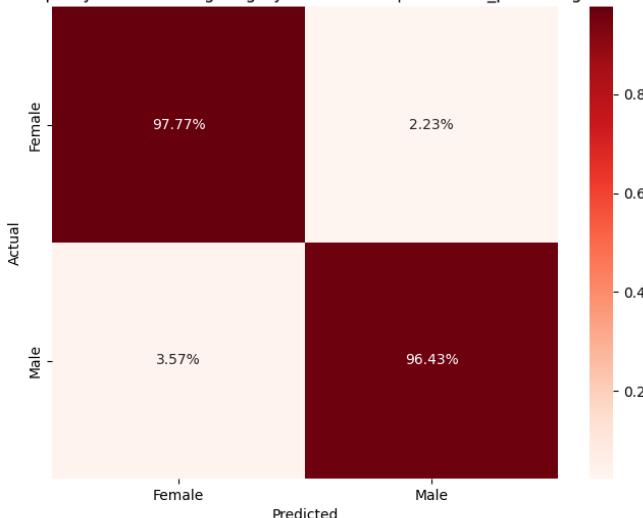
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1960,8000	40,2000	73,0000	1927,0000	<b>0,9717</b>	<b>0,9799</b>	0,9641	0,9635	<b>0,0365</b>	<b>0,9719</b>	<b>0,9435</b>	<b>0,0365</b>
Male	1927,0000	73,0000	40,2000	1960,8000	<b>0,9717</b>	0,9635	<b>0,9796</b>	<b>0,9799</b>	0,0201	0,9715	<b>0,9435</b>	0,0201
overall	3887,8000	113,2000	113,2000	3887,8000	<b>0,9717</b>	0,9717	0,9717	0,9717	0,0283	0,9717	0,9434	0,0283

## 6.4.1 Tablica porównawczego algorytmu dla threshold\_percentage = 0.3

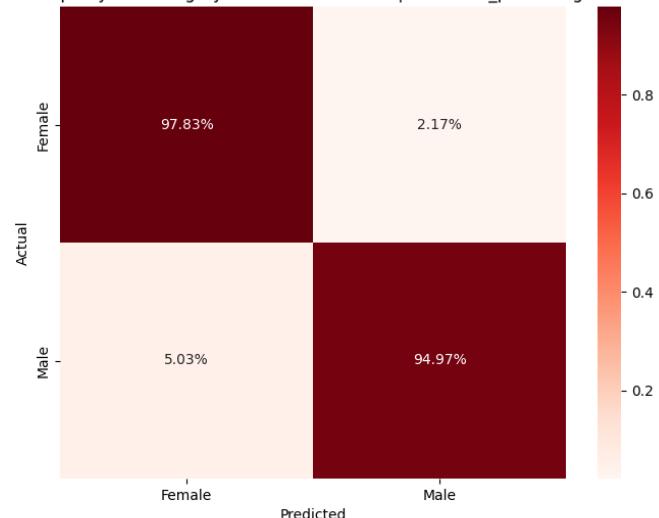
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,8000	42,2000	100,0000	1900,0000	<b>0,9645</b>	<b>0,9789</b>	0,9514	0,9500	<b>0,0500</b>	<b>0,9650</b>	<b>0,9293</b>	<b>0,0500</b>
Male	1900,0000	100,0000	42,2000	1958,8000	<b>0,9645</b>	0,9500	<b>0,9783</b>	<b>0,9789</b>	0,0211	0,9639	<b>0,9293</b>	0,0211
overall	3858,8000	142,2000	142,2000	3858,8000	<b>0,9645</b>	0,9645	0,9645	0,9645	0,0355	0,9645	0,9289	0,0355

## 6.5.1 Porównanie confusion matrix dla threshold\_percentage = 0.4

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 0.4



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 0.4



## 6.5.1 Tablica naszego algorytmu dla threshold\_percentage = 0.4

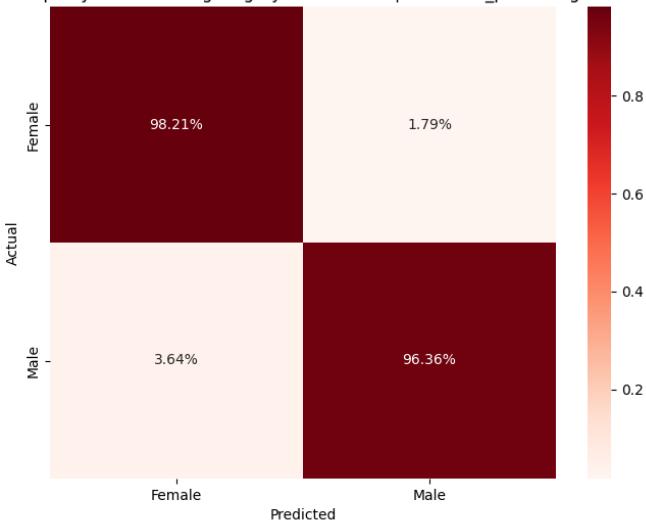
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,4000	44,6000	71,4000	1928,6000	<b>0,9710</b>	<b>0,9777</b>	0,9648	0,9643	<b>0,0357</b>	<b>0,9712</b>	<b>0,9421</b>	<b>0,0357</b>
Male	1928,6000	71,4000	44,6000	1956,4000	<b>0,9710</b>	0,9643	<b>0,9774</b>	<b>0,9777</b>	0,0223	0,9708	<b>0,9421</b>	0,0223
overall	3885,0000	116,0000	116,0000	3885,0000	<b>0,9710</b>	0,9710	0,9710	0,9710	0,0290	0,9710	0,9420	0,0290

## 6.5.1 Tablica porównawczego algorytmu dla threshold\_percentage = 0.4

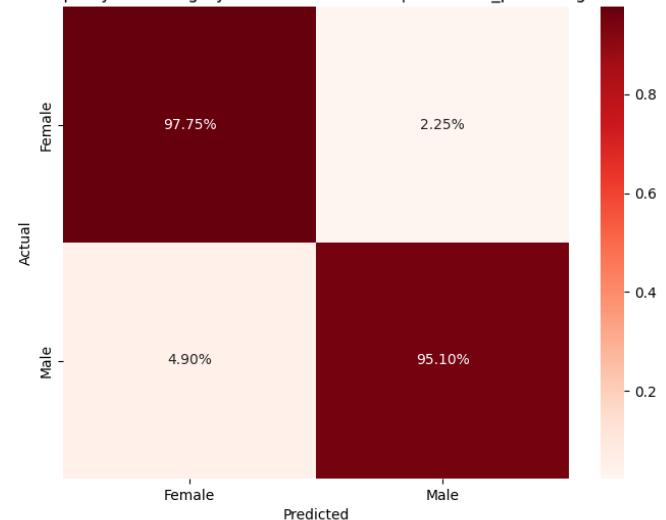
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1957,6000	43,4000	100,6000	1899,4000	<b>0,9640</b>	<b>0,9783</b>	0,9511	0,9497	<b>0,0503</b>	<b>0,9645</b>	<b>0,9284</b>	<b>0,0503</b>
Male	1899,4000	100,6000	43,4000	1957,6000	<b>0,9640</b>	0,9497	<b>0,9777</b>	<b>0,9783</b>	0,0217	0,9635	<b>0,9284</b>	0,0217
overall	3857,0000	144,0000	144,0000	3857,0000	<b>0,9640</b>	0,9640	0,9640	0,9640	0,0360	0,9640	0,9280	0,0360

## 6.6.1 Porównanie confusion matrix dla threshold\_percentage = 0.5

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 0.5



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 0.5



## 6.6.1 Tablica naszego algorytmu dla threshold\_percentage = 0.5

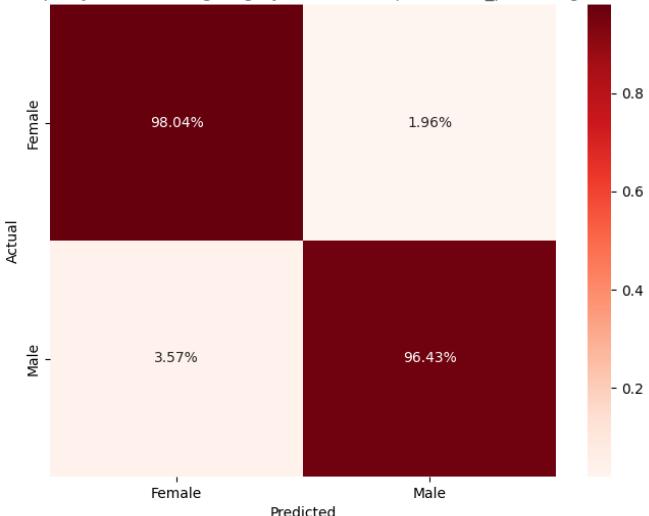
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1965,2000	35,8000	72,8000	1927,2000	<b>0,9729</b>	<b>0,9821</b>	0,9643	0,9636	<b>0,0364</b>	<b>0,9731</b>	<b>0,9459</b>	<b>0,0364</b>
Male	1927,2000	72,8000	35,8000	1965,2000	<b>0,9729</b>	0,9636	<b>0,9818</b>	<b>0,9821</b>	0,0179	0,9726	<b>0,9459</b>	0,0179
overall	3892,4000	108,6000	108,6000	3892,4000	<b>0,9729</b>	0,9729	0,9729	0,9729	0,0271	0,9729	0,9457	0,0271

## 6.6.1 Tablica porównawczego algorytmu dla threshold\_percentage = 0.5

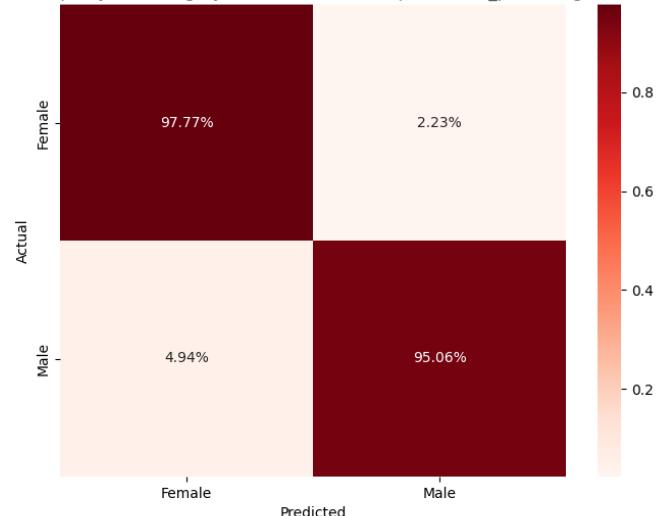
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,0000	45,0000	98,0000	1902,0000	<b>0,9643</b>	<b>0,9775</b>	0,9523	0,9510	<b>0,0490</b>	<b>0,9647</b>	<b>0,9288</b>	<b>0,0490</b>
Male	1902,0000	98,0000	45,0000	1956,0000	<b>0,9643</b>	0,9510	<b>0,9769</b>	<b>0,9775</b>	0,0225	0,9638	<b>0,9288</b>	0,0225
overall	3858,0000	143,0000	143,0000	3858,0000	<b>0,9643</b>	0,9643	0,9643	0,9643	0,0357	0,9643	0,9285	0,0357

## 6.7.1 Porównanie confusion matrix dla threshold\_percentage = 0.6

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 0.6



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 0.6



## 6.7.1 Tablica naszego algorytmu dla threshold\_percentage = 0.6

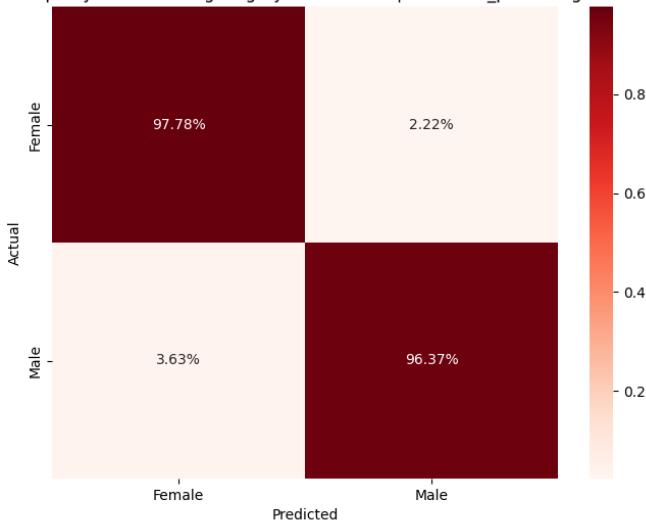
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1961,8000	39,2000	71,4000	1928,6000	<b>0,9724</b>	<b>0,9804</b>	0,9649	0,9643	<b>0,0357</b>	<b>0,9726</b>	<b>0,9448</b>	<b>0,0357</b>
Male	1928,6000	71,4000	39,2000	1961,8000	<b>0,9724</b>	0,9643	<b>0,9801</b>	<b>0,9804</b>	0,0196	0,9721	<b>0,9448</b>	0,0196
overall	3890,4000	110,6000	110,6000	3890,4000	<b>0,9724</b>	0,9724	0,9724	0,9724	0,0276	0,9724	0,9447	0,0276

## 6.7.1 Tablica porównawczego algorytmu dla threshold\_percentage = 0.6

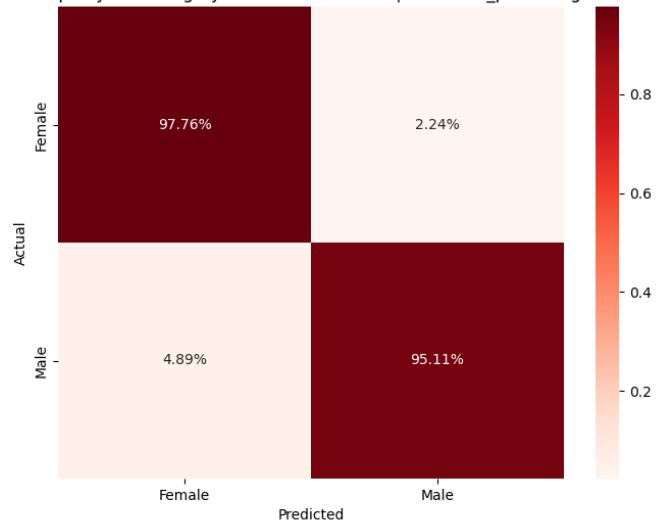
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,4000	44,6000	98,8000	1901,2000	<b>0,9642</b>	<b>0,9777</b>	0,9519	0,9506	<b>0,0494</b>	<b>0,9646</b>	<b>0,9287</b>	<b>0,0494</b>
Male	1901,2000	98,8000	44,6000	1956,4000	<b>0,9642</b>	0,9506	<b>0,9771</b>	<b>0,9777</b>	0,0223	0,9637	<b>0,9287</b>	0,0223
overall	3857,6000	143,4000	143,4000	3857,6000	<b>0,9642</b>	0,9642	0,9642	0,9642	0,0358	0,9642	0,9283	0,0358

## 6.8.1 Porównanie confusion matrix dla threshold\_percentage = 0.7

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 0.7



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 0.7



## 6.8.1 Tablica naszego algorytmu dla threshold\_percentage = 0.7

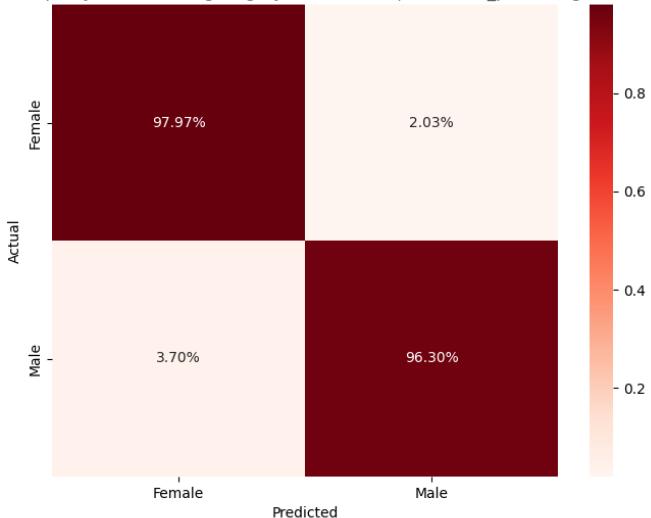
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,6000	44,4000	72,6000	1927,4000	<b>0,9708</b>	<b>0,9778</b>	0,9642	0,9637	<b>0,0363</b>	<b>0,9710</b>	<b>0,9416</b>	<b>0,0363</b>
Male	1927,4000	72,6000	44,4000	1956,6000	<b>0,9708</b>	0,9637	<b>0,9775</b>	<b>0,9778</b>	0,0222	0,9706	<b>0,9416</b>	0,0222
overall	3884,0000	117,0000	117,0000	3884,0000	<b>0,9708</b>	0,9708	0,9708	0,9708	0,0292	0,9708	0,9415	0,0292

## 6.8.1 Tablica porównawczego algorytmu dla threshold\_percentage = 0.7

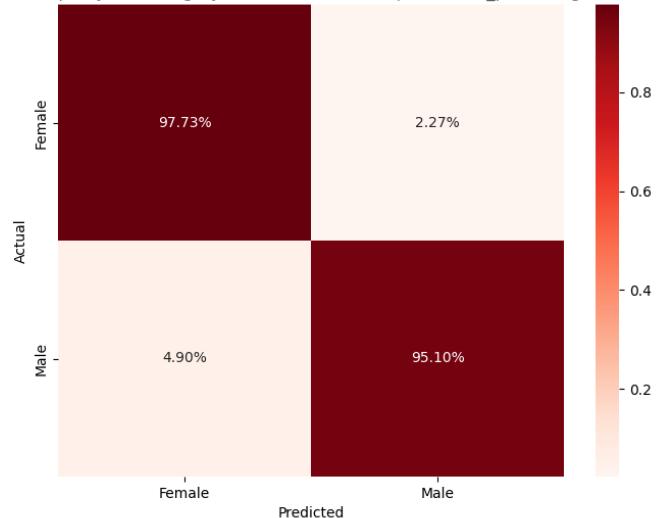
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,2000	44,8000	97,8000	1902,2000	<b>0,9644</b>	<b>0,9776</b>	0,9524	0,9511	<b>0,0489</b>	<b>0,9648</b>	<b>0,9290</b>	<b>0,0489</b>
Male	1902,2000	97,8000	44,8000	1956,2000	<b>0,9644</b>	0,9511	<b>0,9770</b>	<b>0,9776</b>	0,0224	0,9639	<b>0,9290</b>	0,0224
overall	3858,4000	142,6000	142,6000	3858,4000	<b>0,9644</b>	0,9644	0,9644	0,9644	0,0356	0,9644	0,9287	0,0356

## 6.9.1 Porównanie confusion matrix dla threshold\_percentage = 0.8

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 0.8



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 0.8



## 6.9.1 Tablica naszego algorytmu dla threshold\_percentage = 0.8

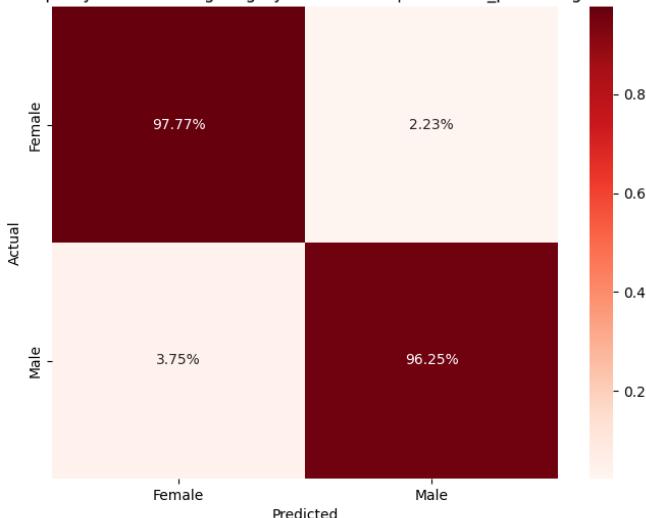
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1960,4000	40,6000	74,0000	1926,0000	<b>0,9714</b>	<b>0,9797</b>	0,9636	0,9630	<b>0,0370</b>	<b>0,9716</b>	<b>0,9428</b>	<b>0,0370</b>
Male	1926,0000	74,0000	40,6000	1960,4000	<b>0,9714</b>	0,9630	<b>0,9794</b>	<b>0,9797</b>	0,0203	0,9711	<b>0,9428</b>	0,0203
overall	3886,4000	114,6000	114,6000	3886,4000	<b>0,9714</b>	0,9714	0,9714	0,9714	0,0286	0,9714	0,9427	0,0286

## 6.9.1 Tablica porównawczego algorytmu dla threshold\_percentage = 0.8

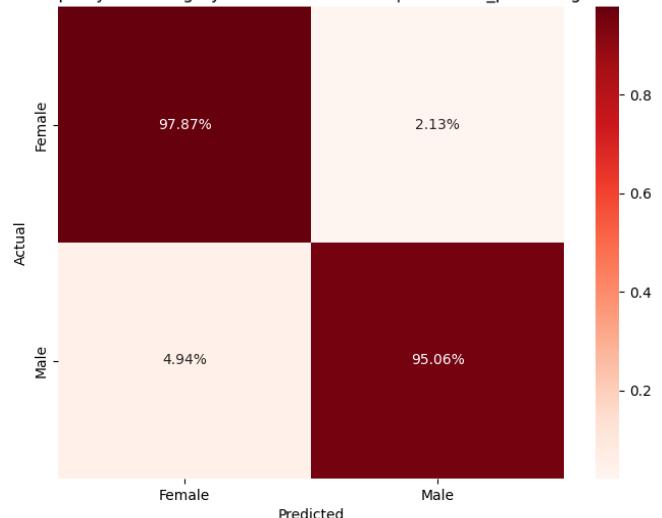
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1955,6000	45,4000	98,0000	1902,0000	<b>0,9642</b>	<b>0,9773</b>	0,9523	0,9510	<b>0,0490</b>	<b>0,9646</b>	<b>0,9286</b>	<b>0,0490</b>
Male	1902,0000	98,0000	45,4000	1955,6000	<b>0,9642</b>	0,9510	<b>0,9767</b>	<b>0,9773</b>	0,0227	0,9637	<b>0,9286</b>	0,0227
overall	3857,6000	143,4000	143,4000	3857,6000	<b>0,9642</b>	0,9642	0,9642	0,9642	0,0358	0,9642	0,9283	0,0358

## 6.10.1 Porównanie confusion matrix dla threshold\_percentage = 0.9

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 0.9



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 0.9



## 6.10.1 Tablica naszego algorytmu dla threshold\_percentage = 0.9

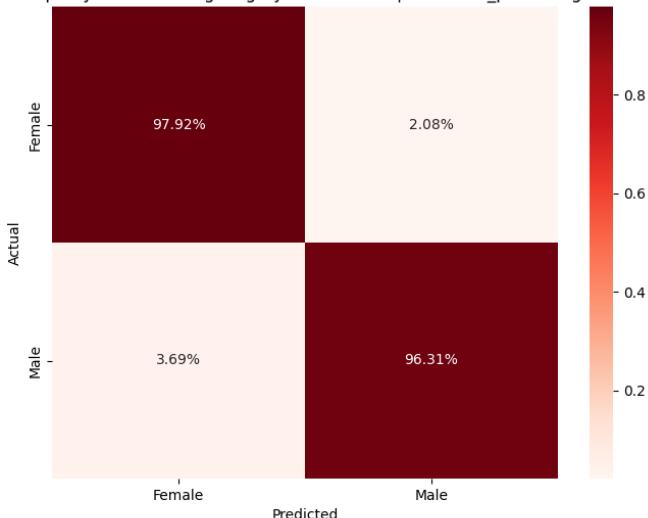
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1956,4000	44,6000	75,0000	1925,0000	<b>0,9701</b>	<b>0,9777</b>	0,9631	0,9625	<b>0,0375</b>	<b>0,9703</b>	<b>0,9403</b>	<b>0,0375</b>
Male	1925,0000	75,0000	44,6000	1956,4000	<b>0,9701</b>	0,9625	<b>0,9774</b>	<b>0,9777</b>	0,0223	0,9699	<b>0,9403</b>	0,0223
overall	3881,4000	119,6000	119,6000	3881,4000	<b>0,9701</b>	0,9701	0,9701	0,9701	0,0299	0,9701	0,9402	0,0299

## 6.10.1 Tablica porównawczego algorytmu dla threshold\_percentage = 0.9

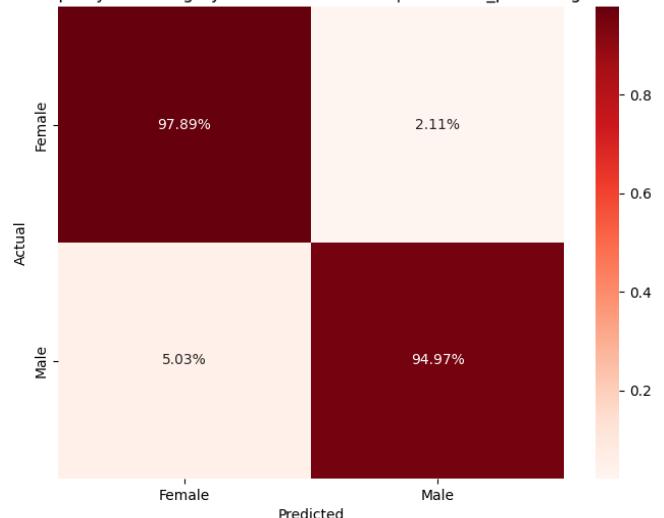
	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,4000	42,6000	98,8000	1901,2000	<b>0,9647</b>	<b>0,9787</b>	0,9520	0,9506	<b>0,0494</b>	<b>0,9652</b>	<b>0,9297</b>	<b>0,0494</b>
Male	1901,2000	98,8000	42,6000	1958,4000	<b>0,9647</b>	0,9506	<b>0,9781</b>	<b>0,9787</b>	0,0213	0,9642	<b>0,9297</b>	0,0213
overall	3859,6000	141,4000	141,4000	3859,6000	<b>0,9647</b>	0,9647	0,9647	0,9647	0,0353	0,9647	0,9293	0,0353

## 6.11.1 Porównanie confusion matrix dla threshold\_percentage = 1.0

Macierz pomyłek dla naszego algorytmu: Gender | threshold\_percentage : 1.0



Macierz pomyłek dla algorytmu sklearn:Gender | threshold\_percentage : 1.0



## 6.11.1 Tablica naszego algorytmu dla threshold\_percentage = 1.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1959,4000	41,6000	73,8000	1926,2000	<b>0,9712</b>	<b>0,9792</b>	0,9637	0,9631	<b>0,0369</b>	<b>0,9714</b>	<b>0,9424</b>	<b>0,0369</b>
Male	1926,2000	73,8000	41,6000	1959,4000	<b>0,9712</b>	0,9631	<b>0,9789</b>	<b>0,9792</b>	0,0208	0,9709	<b>0,9424</b>	0,0208
overall	3885,6000	115,4000	115,4000	3885,6000	<b>0,9712</b>	0,9712	0,9712	0,9712	0,0288	0,9712	0,9423	0,0288

## 6.11.1 Tablica porównawczego algorytmu dla threshold\_percentage = 1.0

	TP	FN	FP	TN	ACC	TPR	PPV	TNR	FAR	F1	MCC	FPR
Female	1958,8000	42,2000	100,6000	1899,4000	<b>0,9643</b>	<b>0,9789</b>	0,9512	0,9497	<b>0,0503</b>	<b>0,9649</b>	<b>0,9290</b>	<b>0,0503</b>
Male	1899,4000	100,6000	42,2000	1958,8000	<b>0,9643</b>	0,9497	<b>0,9783</b>	<b>0,9789</b>	0,0211	0,9638	<b>0,9290</b>	0,0211
overall	3858,2000	142,8000	142,8000	3858,2000	<b>0,9643</b>	0,9643	0,9643	0,9643	0,0357	0,9643	0,9286	0,0357