Modelo	Recall	Precision	F1-Score
AdaBoost	79.37%	79.73%	79.51%
RUSBoost	80.30%	80.03%	80.13%
Gradient Boosting	81.01%	81.49%	81.20%
Bagging	81.53%	81.35%	81.43%
Balanced Bagging	81.76%	81.40%	81.52%
Balanced Random Forest	81.97%	81.59%	81.71%
Random Forest	82.00%	81.64%	81.76%
XGBoost	**81.99%**	**81.75%**	**81.85%**
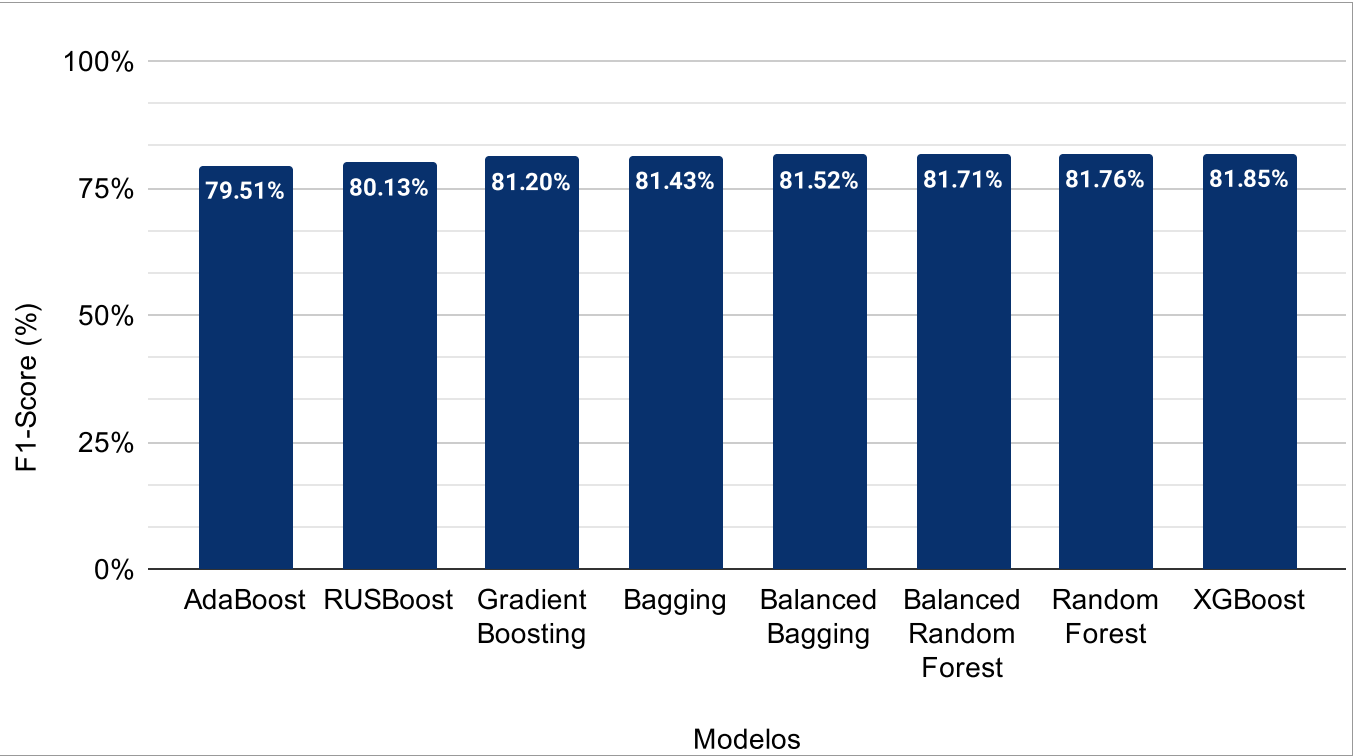
Dia	AdaBoost	Bagging	Balanced Bagging	Gradient Boosting	Balanced Random Forest	Random Forest	RUSBoost	XGBoost
1	78.76%	81.96%	83.01%	87.15%	82.80%	82.59%	80.69%	**88.78%**
2	82.11%	86.37%	87.01%	86.91%	86.76%	87.98%	85.87%	**86.89%**
3	80.36%	80.63%	81.36%	80.01%	81.10%	82.49%	77.31%	**81.08%**
4	76.78%	78.10%	78.70%	76.20%	77.71%	77.96%	74.63%	**77.06%**
5	78.24%	76.34%	76.26%	74.30%	77.88%	78.45%	77.90%	**77.20%**
6	75.75%	76.11%	74.26%	73.58%	76.03%	76.60%	74.80%	**73.21%**
7	75.66%	76.56%	76.36%	76.55%	76.78%	76.98%	75.93%	**75.52%**
8	79.40%	83.19%	83.19%	85.35%	84.49%	83.62%	81.23%	**88.33%**
9	83.42%	84.48%	84.79%	85.44%	85.41%	85.23%	83.28%	**84.88%**
10	79.37%	81.78%	82.30%	79.67%	81.38%	81.36%	80.52%	**77.78%**
11	81.51%	80.85%	80.36%	82.16%	82.45%	82.68%	80.01%	**80.54%**
12	76.06%	76.61%	77.68%	74.08%	78.55%	77.55%	76.49%	**78.10%**
13	78.41%	79.51%	78.64%	75.20%	77.98%	78.75%	79.04%	**75.47%**
14	79.45%	82.30%	82.35%	78.42%	82.09%	82.57%	80.01%	**78.82%**
15	74.02%	78.28%	79.49%	87.15%	79.29%	78.08%	76.26%	**88.77%**
16	80.18%	82.18%	82.04%	82.75%	82.25%	82.45%	80.77%	**82.94%**
17	76.81%	79.68%	80.63%	80.88%	81.32%	80.18%	77.91%	**81.96%**
18	76.57%	78.92%	78.15%	74.50%	75.31%	77.63%	74.00%	**74.53%**
19	74.81%	76.49%	76.28%	73.80%	75.64%	74.81%	74.54%	**75.76%**
20	78.23%	78.56%	78.45%	73.11%	78.72%	78.14%	77.08%	**74.69%**
21	74.88%	75.61%	75.89%	71.86%	76.42%	75.83%	75.25%	**73.57%**
22	75.00%	79.15%	80.22%	77.12%	80.64%	81.70%	88.31%	**88.56%**
23	82.61%	84.67%	83.51%	85.58%	85.53%	86.51%	85.50%	**85.20%**
24	79.08%	80.90%	81.68%	78.23%	82.43%	81.96%	80.51%	**81.97%**
25	76.13%	78.99%	79.30%	74.78%	78.24%	78.99%	76.75%	**76.31%**
26	76.69%	79.04%	78.45%	79.19%	79.28%	77.86%	78.09%	**78.71%**
27	76.24%	78.50%	79.50%	77.45%	78.64%	78.20%	78.45%	**75.96%**
28	75.82%	80.21%	78.97%	75.19%	77.87%	78.07%	76.60%	**78.89%**
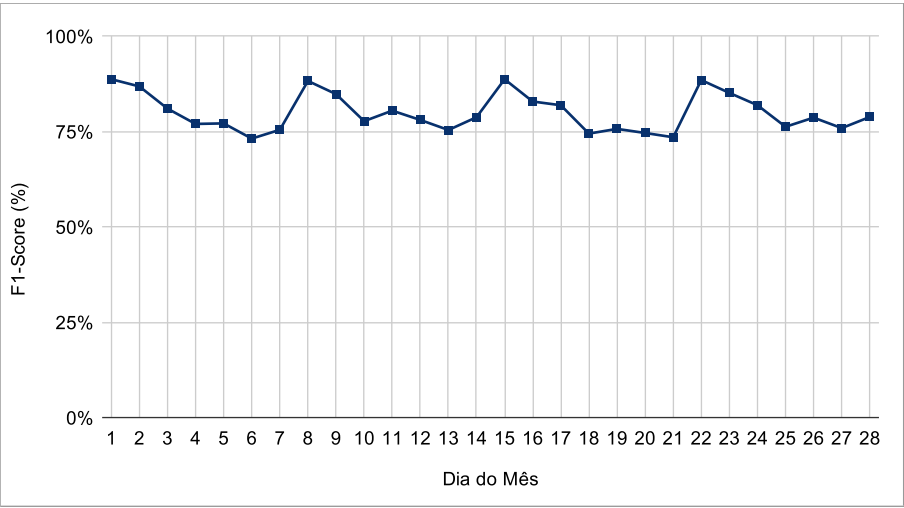
Modelos	Recall	Precision	F1-Score
RUSBoost	79.35%	84.65%	81.43%
AdaBoost	79.90%	**89.70%**	83.22%
XGBoost	81.49%	85.90%	83.31%
Gradient Boosting	81.05%	87.99%	83.66%
Bagging	81.42%	89.16%	84.27%
Random Forest	83.23%	87.67%	85.09%
Balanced Bagging	84.93%	86.36%	85.60%
Balanced Random Forest	**85.36%**	85.92%	**85.63%**
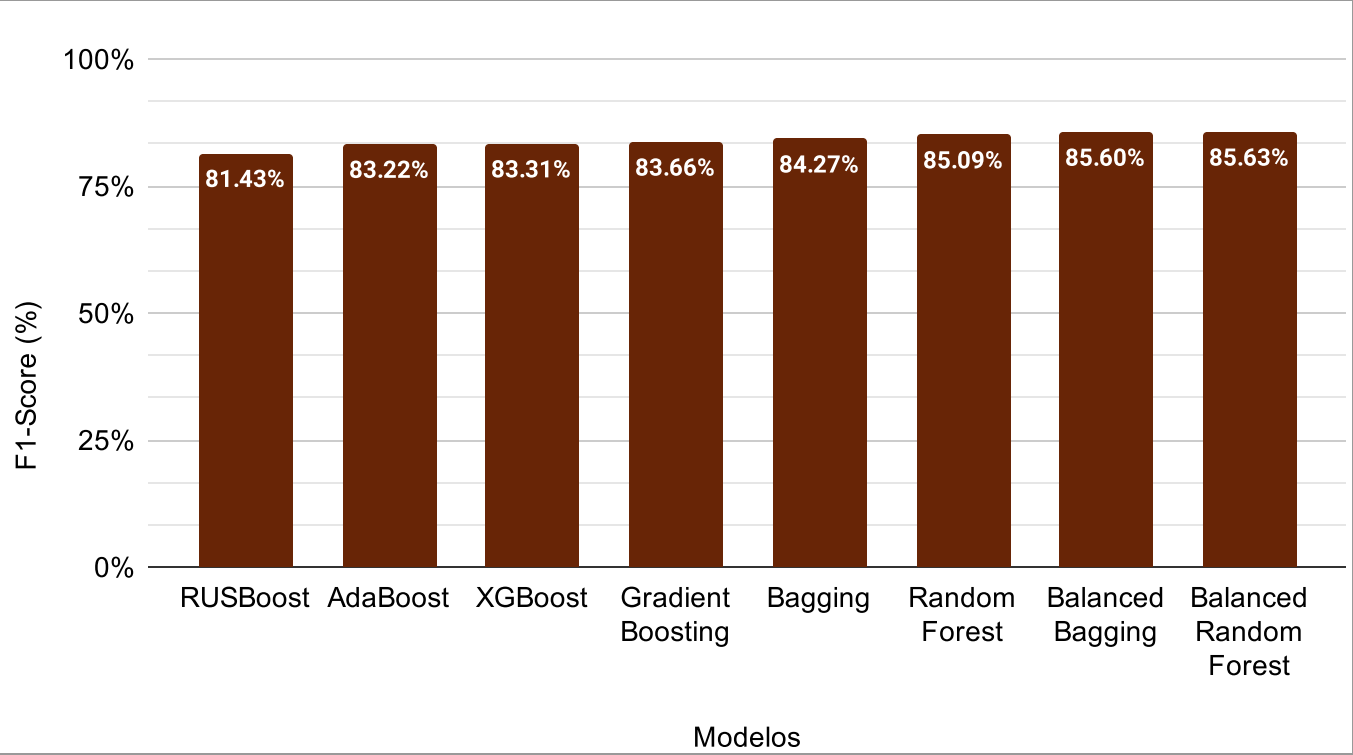
Dia	AdaBoost	Bagging	Balanced Bagging	Gradient Boosting	Balanced Random Forest	Random Forest	RUSBoost	XGBoost
1	49.01%	59.12%	77.90%	72.30%	**72.30%**	65.78%	65.78%	57.22%
2	59.03%	48.92%	67.52%	57.12%	**61.99%**	64.29%	48.79%	65.70%
3	57.86%	48.49%	67.36%	60.83%	**68.75%**	62.90%	64.14%	62.90%
4	56.76%	52.08%	71.63%	69.73%	**68.76%**	69.73%	62.40%	63.19%
5	57.69%	61.31%	68.17%	67.80%	**72.93%**	67.80%	59.87%	51.64%
6	64.14%	69.66%	76.59%	70.08%	**79.48%**	77.88%	70.08%	65.15%
7	68.98%	76.86%	76.12%	72.50%	**76.12%**	77.54%	69.79%	67.61%
8	65.19%	57.41%	68.54%	62.42%	**68.12%**	62.42%	62.42%	58.02%
9	55.71%	71.01%	79.33%	72.45%	**80.84%**	71.01%	65.22%	64.22%
10	69.96%	70.14%	72.75%	72.75%	**72.75%**	68.32%	66.16%	77.21%
11	69.55%	69.55%	72.60%	68.69%	**66.90%**	65.62%	67.77%	67.46%
12	59.13%	61.93%	65.66%	59.96%	**68.27%**	61.93%	59.83%	60.58%
13	62.50%	62.50%	69.30%	62.61%	**73.27%**	67.87%	65.87%	59.62%
14	67.40%	69.26%	69.96%	73.22%	**74.82%**	73.22%	66.92%	66.21%
15	65.97%	62.08%	75.83%	62.98%	**74.04%**	70.86%	65.13%	68.23%
16	61.71%	67.48%	73.02%	69.25%	**73.61%**	68.64%	70.28%	59.41%
17	65.91%	72.85%	76.39%	69.11%	**75.32%**	71.16%	62.18%	70.77%
18	65.89%	71.96%	77.53%	69.61%	**73.83%**	73.56%	65.37%	67.25%
19	65.31%	74.67%	74.46%	72.97%	**74.07%**	74.05%	67.13%	73.80%
20	67.33%	75.39%	74.27%	70.79%	**75.86%**	73.43%	63.65%	74.32%
21	67.08%	73.91%	74.42%	65.89%	**75.68%**	73.40%	68.65%	69.47%
22	69.93%	71.30%	77.09%	71.39%	**76.27%**	76.88%	74.26%	75.47%
23	74.59%	76.65%	76.90%	70.00%	**75.49%**	75.50%	72.50%	73.20%
24	69.13%	66.58%	69.92%	67.03%	**71.63%**	70.19%	60.99%	69.06%
25	72.43%	72.20%	74.92%	72.00%	**69.26%**	72.56%	66.39%	66.80%
26	49.04%	100.00%	100.00%	100.00%	**49.84%**	49.69%	48.72%	100.00%
27	100.00%	100.00%	100.00%	100.00%	**99.02%**	100.00%	49.87%	100.00%
28	100.00%	100.00%	100.00%	100.00%	**99.68%**	100.00%	100.00%	100.00%
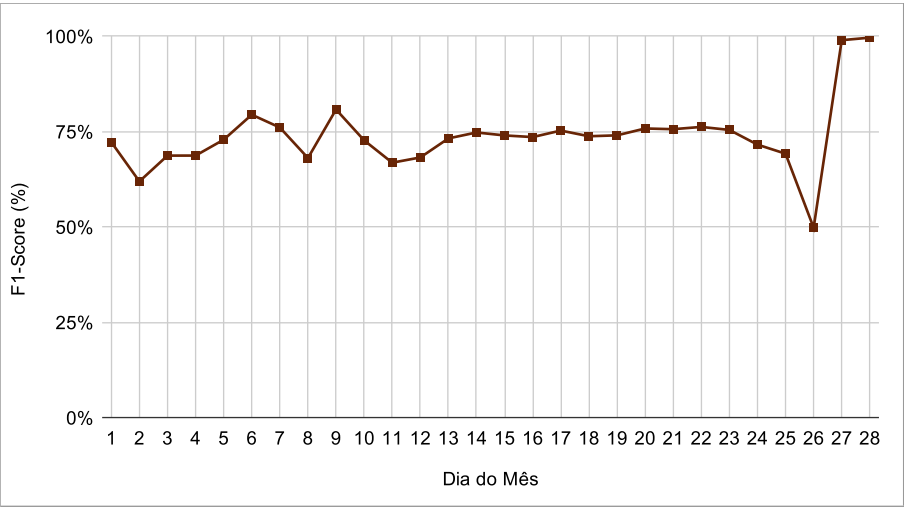
Modelos	±0 dia	±1 dias	±2 dias	±3 dias
XGBoost	53.86%	61.08%	66.43%	71.47%
Gradient Boosting	47.53%	61.04%	69.31%	73.70%
Bagging	54.24%	70.12%	78.46%	84.12%
Random Forest	54.29%	70.10%	78.41%	**84.16%**
AdaBoost	**60.23%**	**71.91%**	**79.62%**	**84.16%**
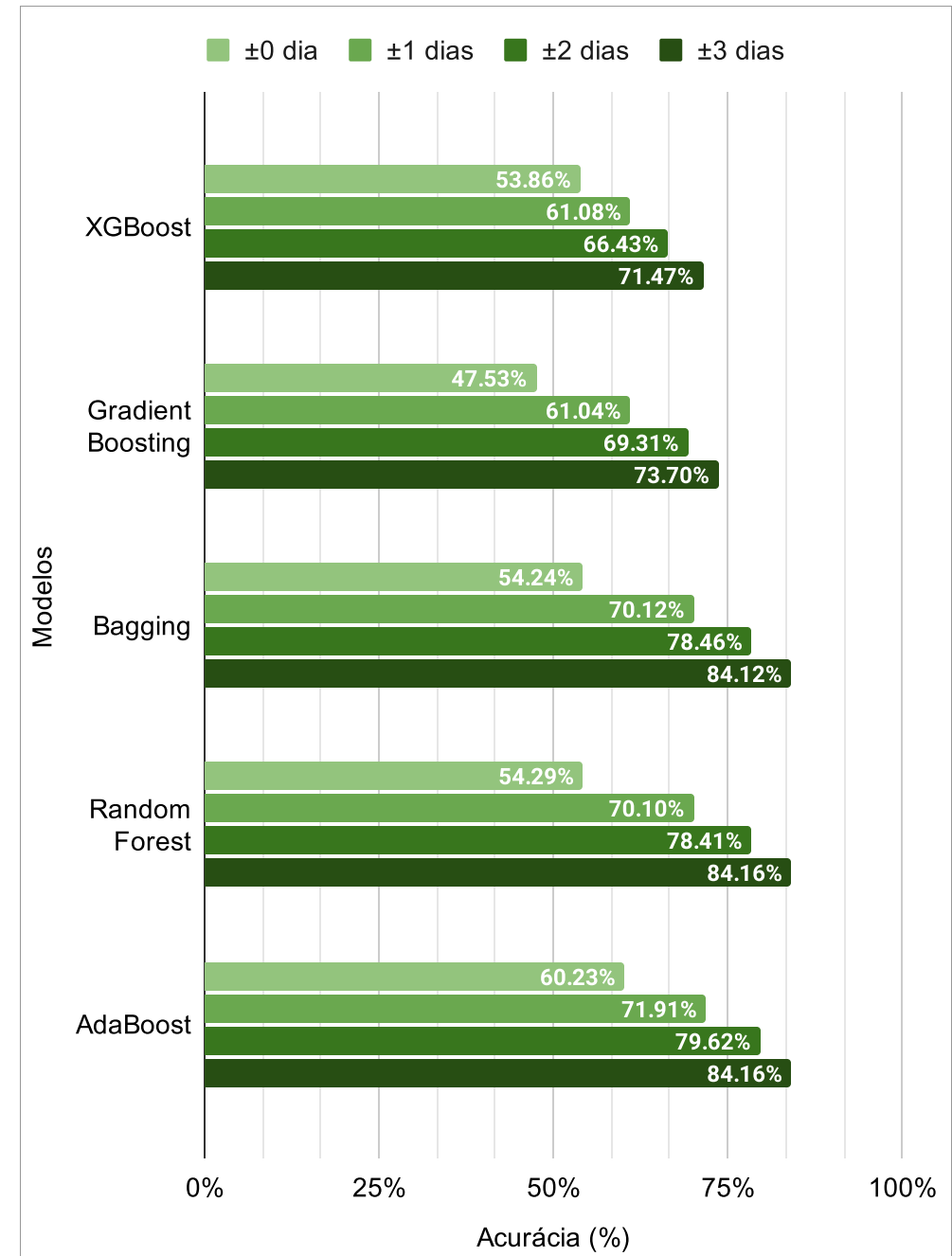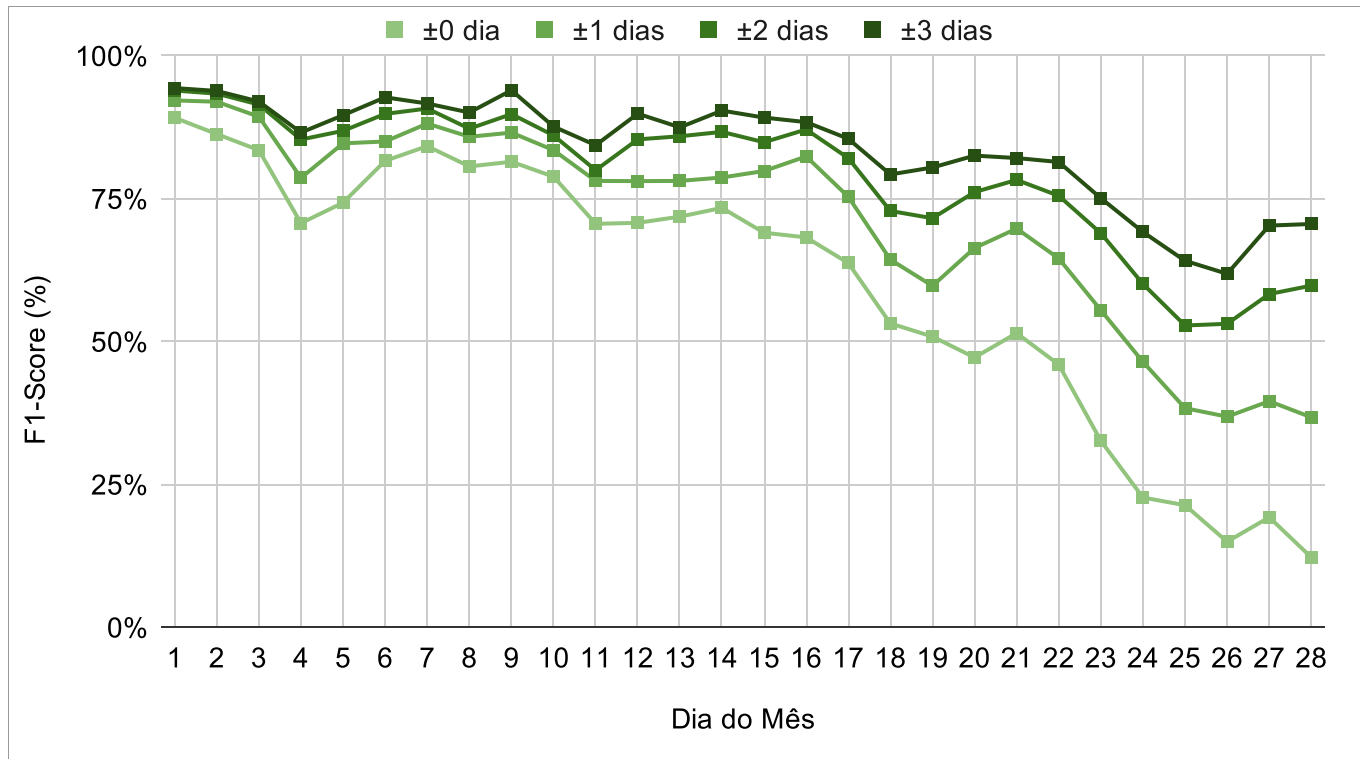
Dia	AdaBoost	Bagging	Gradient Boosting	Random Forest	XGBoost
1	**89.18%**	77.06%	64.94%	77.49%	77.49%
2	**86.32%**	72.17%	65.57%	72.64%	70.75%
3	**83.51%**	72.87%	68.62%	72.34%	75.00%
4	**70.73%**	65.24%	47.56%	65.85%	64.02%
5	**74.32%**	64.48%	55.74%	65.03%	66.12%
6	**81.64%**	73.91%	56.04%	73.43%	70.53%
7	**84.21%**	77.19%	63.16%	77.63%	70.61%
8	**80.66%**	73.58%	64.62%	73.58%	70.75%
9	**81.48%**	72.69%	61.57%	72.69%	70.83%
10	**78.87%**	70.62%	63.40%	70.10%	71.13%
11	**70.63%**	62.50%	52.50%	63.75%	61.25%
12	**70.79%**	61.24%	52.81%	60.11%	62.36%
13	**71.88%**	63.02%	52.08%	62.50%	56.77%
14	**73.40%**	65.96%	56.38%	65.96%	65.43%
15	**69.06%**	63.67%	57.55%	63.31%	67.27%
16	**68.24%**	65.67%	57.94%	66.09%	62.66%
17	**63.77%**	60.87%	47.83%	60.39%	54.59%
18	**53.19%**	50.00%	44.68%	49.47%	54.79%
19	**50.89%**	44.38%	42.60%	44.38%	50.89%
20	**47.23%**	45.11%	42.98%	44.68%	44.68%
21	**51.49%**	44.26%	43.40%	45.11%	47.23%
22	**45.99%**	41.35%	38.40%	41.35%	41.35%
23	**32.65%**	30.61%	32.65%	30.61%	34.29%
24	**22.73%**	18.18%	21.21%	18.69%	26.26%
25	**21.38%**	22.01%	20.13%	22.01%	23.27%
26	**15.00%**	15.63%	10.00%	15.63%	5.63%
27	**19.27%**	16.67%	18.23%	16.67%	11.46%
28	**12.25%**	12.75%	10.78%	13.73%	13.73%
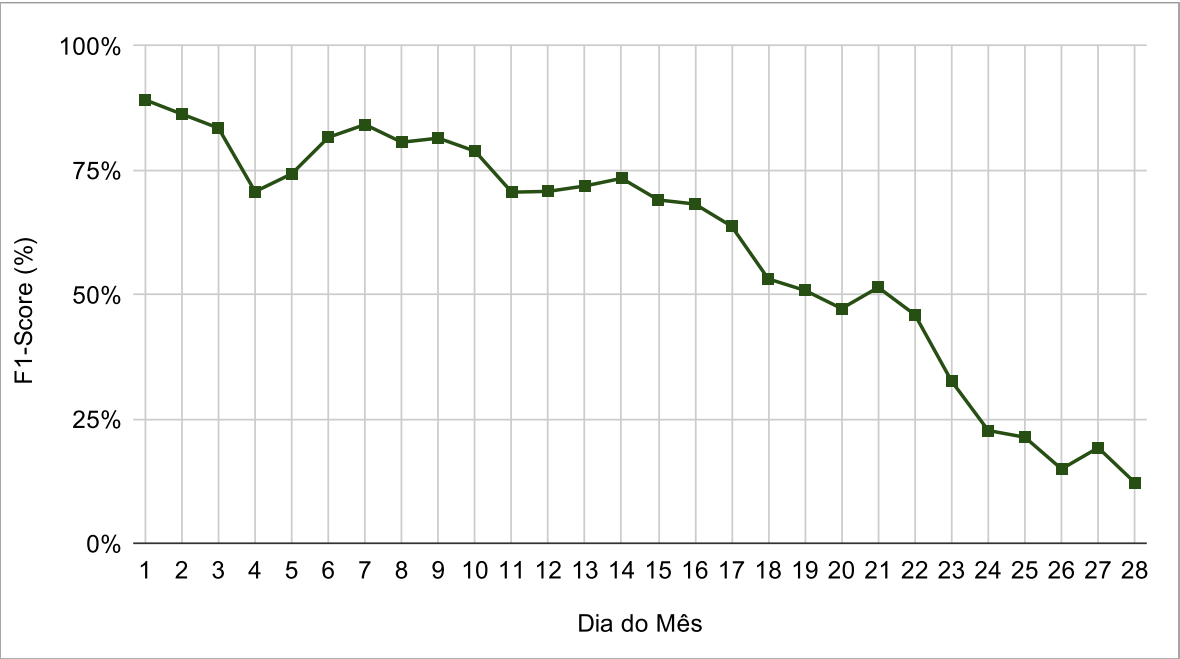
Dia	AdaBoost	Bagging	Gradient Boosting	Random Forest	XGBoost
1	**92.21%**	89.61%	77.06%	89.61%	80.09%
2	**91.98%**	87.74%	77.36%	87.74%	74.06%
3	**89.36%**	87.77%	78.19%	87.77%	78.19%
4	**78.66%**	76.22%	62.20%	76.22%	67.07%
5	**84.70%**	77.05%	69.40%	76.50%	71.58%
6	**85.02%**	84.06%	72.95%	84.06%	73.91%
7	**88.16%**	86.40%	73.68%	86.84%	71.93%
8	**85.85%**	83.02%	71.70%	82.08%	73.11%
9	**86.57%**	82.41%	72.69%	82.41%	73.61%
10	**83.51%**	80.93%	71.13%	80.93%	74.23%
11	**78.13%**	76.88%	61.25%	76.88%	65.63%
12	**78.09%**	75.84%	67.98%	75.84%	66.85%
13	**78.13%**	74.48%	60.94%	74.48%	63.02%
14	**78.72%**	75.00%	63.30%	74.47%	72.87%
15	**79.86%**	75.18%	67.63%	75.54%	71.58%
16	**82.40%**	77.25%	68.67%	76.82%	66.95%
17	**75.36%**	73.91%	61.84%	73.91%	61.35%
18	**64.36%**	64.36%	57.98%	64.36%	63.30%
19	**59.76%**	59.76%	56.21%	59.76%	60.95%
20	**66.38%**	65.53%	55.32%	65.53%	52.34%
21	**69.79%**	71.49%	57.45%	71.49%	54.04%
22	**64.56%**	64.98%	52.74%	64.98%	51.05%
23	**55.51%**	55.92%	45.71%	55.92%	44.08%
24	**46.46%**	45.96%	44.95%	45.96%	41.92%
25	**38.36%**	38.36%	37.11%	38.99%	37.74%
26	**36.88%**	36.25%	36.25%	35.63%	19.38%
27	**39.58%**	41.67%	38.54%	41.67%	33.85%
28	**36.76%**	37.75%	36.27%	38.73%	33.33%
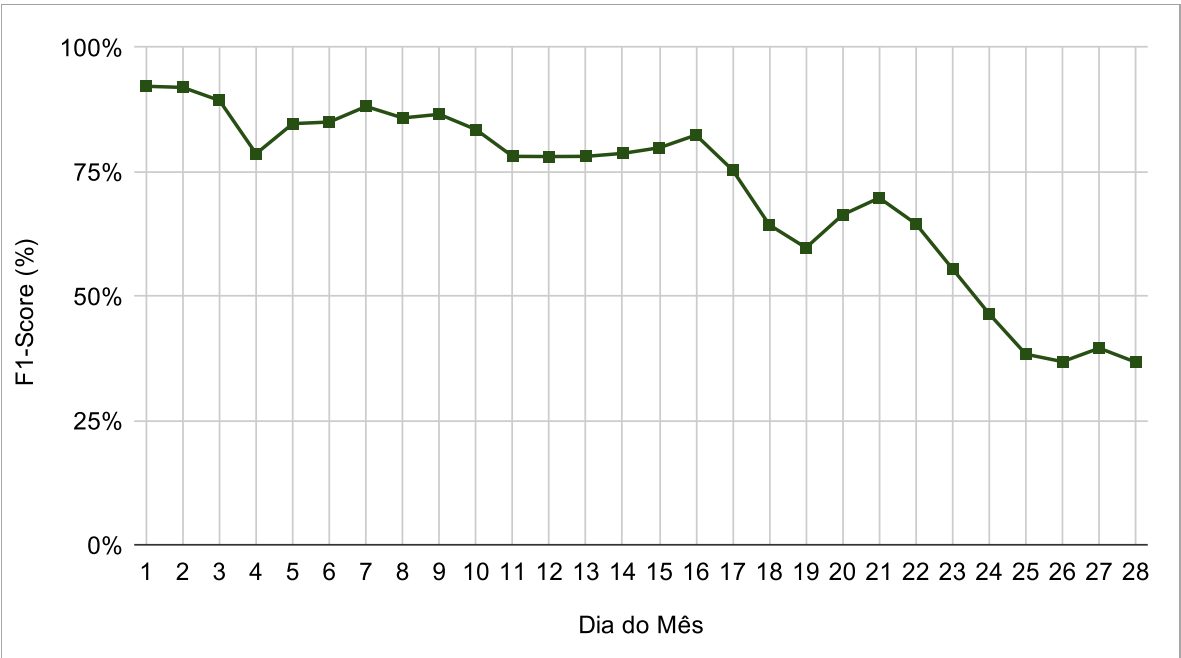
Dia	AdaBoost	Bagging	Gradient Boosting	Random Forest	XGBoost
1	**93.94%**	93.07%	80.95%	92.64%	80.52%
2	**93.40%**	92.92%	80.19%	92.92%	77.36%
3	**91.49%**	91.49%	80.85%	91.49%	79.79%
4	**85.37%**	83.54%	69.51%	83.54%	70.73%
5	**86.89%**	85.25%	75.96%	85.25%	73.22%
6	**89.86%**	87.44%	76.33%	87.44%	75.36%
7	**90.79%**	89.91%	79.39%	89.91%	75.88%
8	**87.26%**	87.74%	76.89%	87.74%	76.42%
9	**89.81%**	88.43%	77.31%	88.43%	78.24%
10	**86.08%**	84.02%	76.29%	84.02%	75.77%
11	**80.00%**	80.00%	68.13%	80.00%	70.63%
12	**85.39%**	84.83%	71.35%	83.71%	71.91%
13	**85.94%**	81.77%	69.27%	81.77%	67.19%
14	**86.70%**	85.64%	72.34%	85.64%	76.06%
15	**84.89%**	81.65%	76.62%	81.65%	74.46%
16	**87.12%**	84.55%	78.97%	84.55%	70.39%
17	**82.13%**	78.74%	72.95%	78.74%	66.18%
18	**72.87%**	71.81%	67.02%	71.28%	69.15%
19	**71.60%**	69.82%	66.27%	71.01%	67.46%
20	**76.17%**	75.74%	64.68%	75.74%	60.43%
21	**78.30%**	77.87%	67.23%	77.87%	58.30%
22	**75.53%**	78.06%	64.56%	78.06%	59.92%
23	**68.98%**	68.16%	57.55%	68.16%	51.84%
24	**60.10%**	56.06%	54.55%	56.06%	48.99%
25	**52.83%**	52.83%	49.69%	52.20%	45.28%
26	**53.13%**	55.63%	51.88%	55.63%	34.38%
27	**58.33%**	56.77%	51.56%	56.77%	46.35%
28	**59.80%**	59.31%	50.49%	59.31%	48.53%
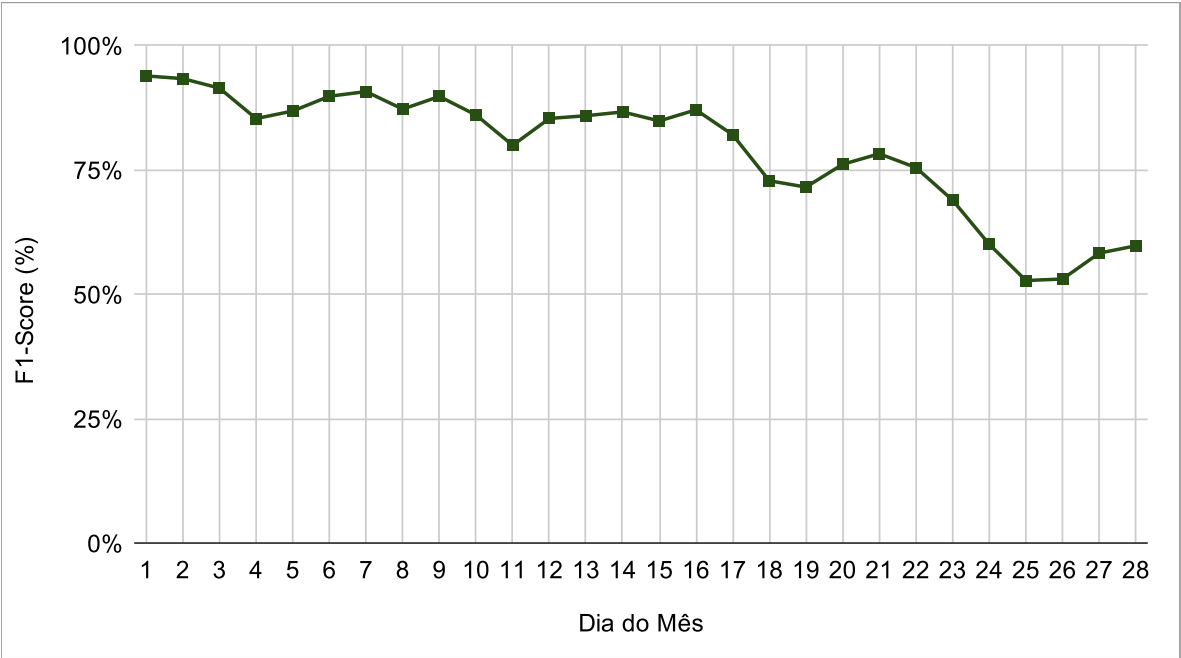
Dia	AdaBoost	Bagging	Gradient Boosting	Random Forest	XGBoost
1	**94.37%**	95.24%	83.12%	95.24%	83.98%
2	**93.87%**	94.81%	82.08%	94.81%	78.77%
3	**92.02%**	92.55%	82.98%	92.55%	82.45%
4	**86.59%**	90.24%	71.34%	90.24%	72.56%
5	**89.62%**	89.07%	78.14%	89.07%	75.96%
6	**92.75%**	90.82%	78.26%	90.34%	77.29%
7	**91.67%**	92.11%	79.82%	92.11%	77.63%
8	**90.09%**	91.04%	79.72%	91.04%	80.66%
9	**93.98%**	92.13%	81.94%	92.13%	81.02%
10	**87.63%**	88.66%	79.38%	88.66%	78.35%
11	**84.38%**	81.88%	71.88%	81.88%	74.38%
12	**89.89%**	88.20%	74.72%	88.20%	75.28%
13	**87.50%**	87.50%	75.52%	87.50%	70.31%
14	**90.43%**	86.17%	74.47%	86.70%	79.26%
15	**89.21%**	86.69%	79.86%	86.69%	78.06%
16	**88.41%**	89.27%	81.12%	89.27%	72.96%
17	**85.51%**	84.54%	75.36%	84.54%	69.08%
18	**79.26%**	77.13%	71.81%	77.13%	75.53%
19	**80.47%**	78.11%	72.19%	78.11%	72.19%
20	**82.55%**	84.68%	69.36%	84.68%	66.38%
21	**82.13%**	81.28%	71.49%	81.70%	66.81%
22	**81.43%**	84.39%	70.89%	84.39%	66.67%
23	**75.10%**	75.92%	64.08%	75.92%	59.18%
24	**69.19%**	70.20%	61.11%	70.71%	54.55%
25	**64.15%**	66.67%	57.86%	66.67%	54.09%
26	**61.88%**	63.75%	58.75%	63.75%	48.75%
27	**70.31%**	71.88%	65.10%	71.88%	59.38%
28	**70.59%**	69.12%	61.27%	69.12%	62.25%