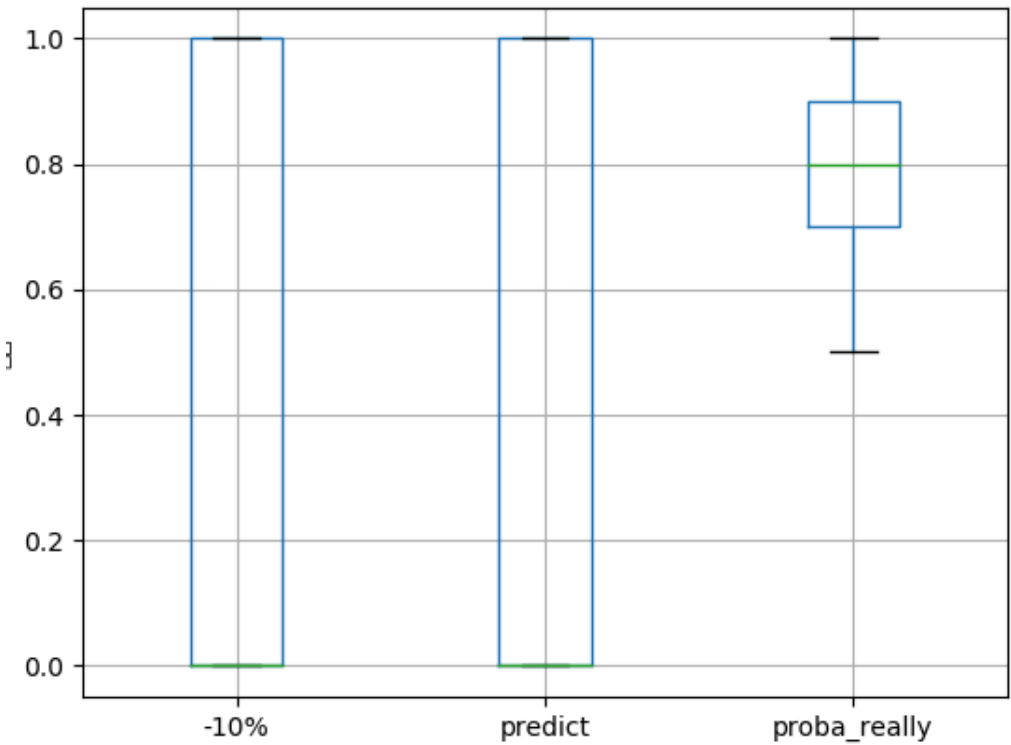


5% 代表真实值， predict代表预测的值， proba\_really 代表预测的概率  
5%的错误预测指的是错误值的统计  
5%的正确预测指的是正确值的统计  
其后10%， 15%类推

5%的预测

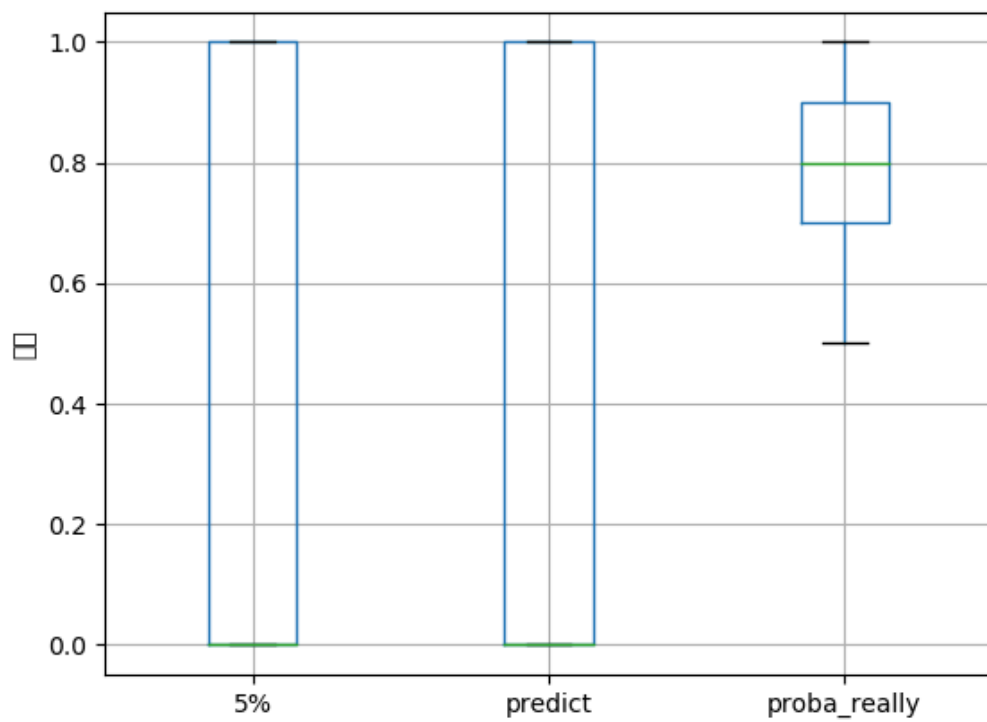
|       | 5%          | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2888.000000 | 2888.000000 | 2888.000000  |
| mean  | 0.367729    | 0.398546    | 0.795602     |
| std   | 0.482270    | 0.489684    | 0.151078     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 1.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



5%的正确预测

5%    predict    proba\_really

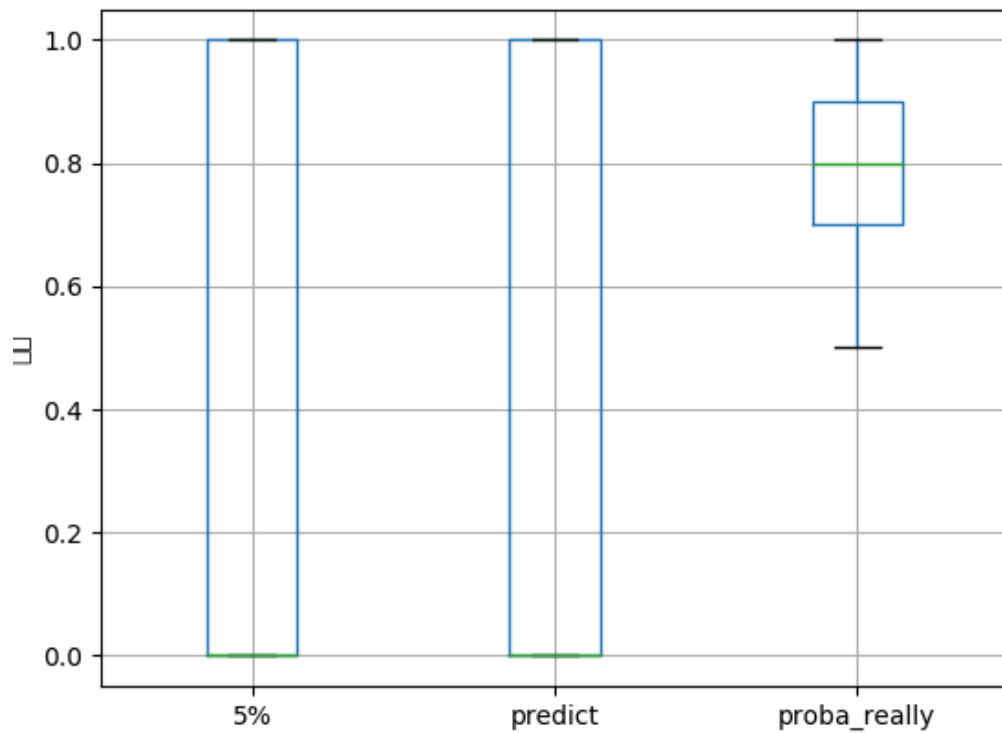
|       |             |             |             |
|-------|-------------|-------------|-------------|
| count | 2569.000000 | 2569.000000 | 2569.000000 |
| mean  | 0.368626    | 0.368626    | 0.812301    |
| std   | 0.482526    | 0.482526    | 0.146122    |
| min   | 0.000000    | 0.000000    | 0.500000    |
| 25%   | 0.000000    | 0.000000    | 0.700000    |
| 50%   | 0.000000    | 0.000000    | 0.800000    |
| 75%   | 1.000000    | 1.000000    | 0.900000    |
| max   | 1.000000    | 1.000000    | 1.000000    |



5%的错误预测

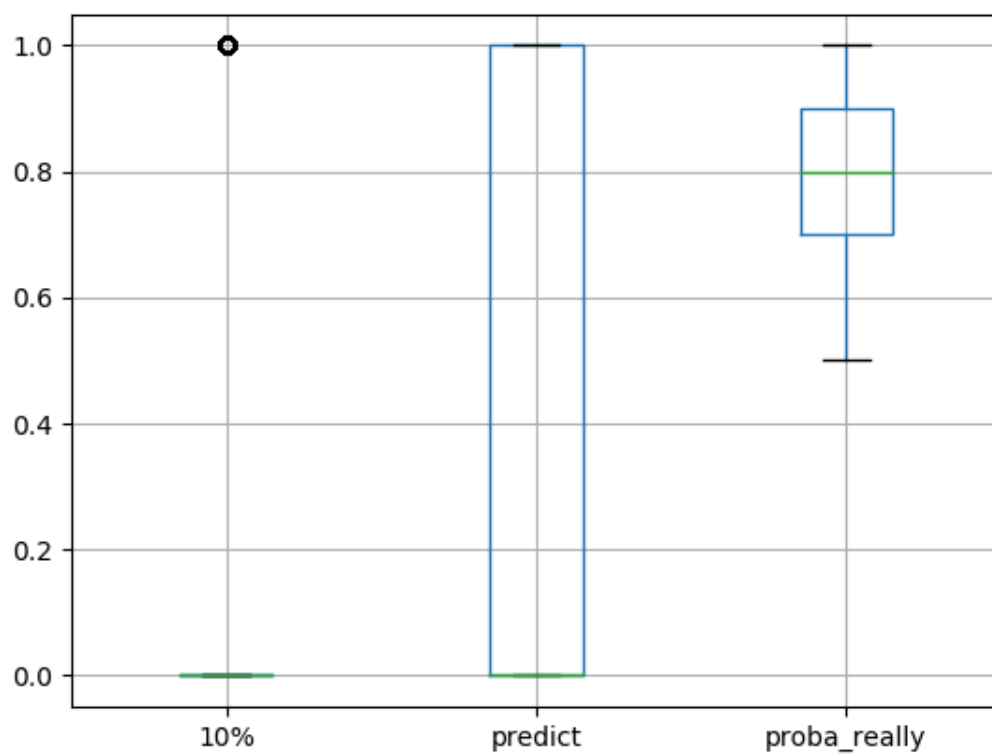
|       | 5%          | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2569.000000 | 2569.000000 | 2569.000000  |
| mean  | 0.368626    | 0.368626    | 0.812301     |
| std   | 0.482526    | 0.482526    | 0.146122     |
| min   | 0.000000    | 0.000000    | 0.500000     |

|     |          |          |          |
|-----|----------|----------|----------|
| 25% | 0.000000 | 0.000000 | 0.700000 |
| 50% | 0.000000 | 0.000000 | 0.800000 |
| 75% | 1.000000 | 1.000000 | 0.900000 |
| max | 1.000000 | 1.000000 | 1.000000 |



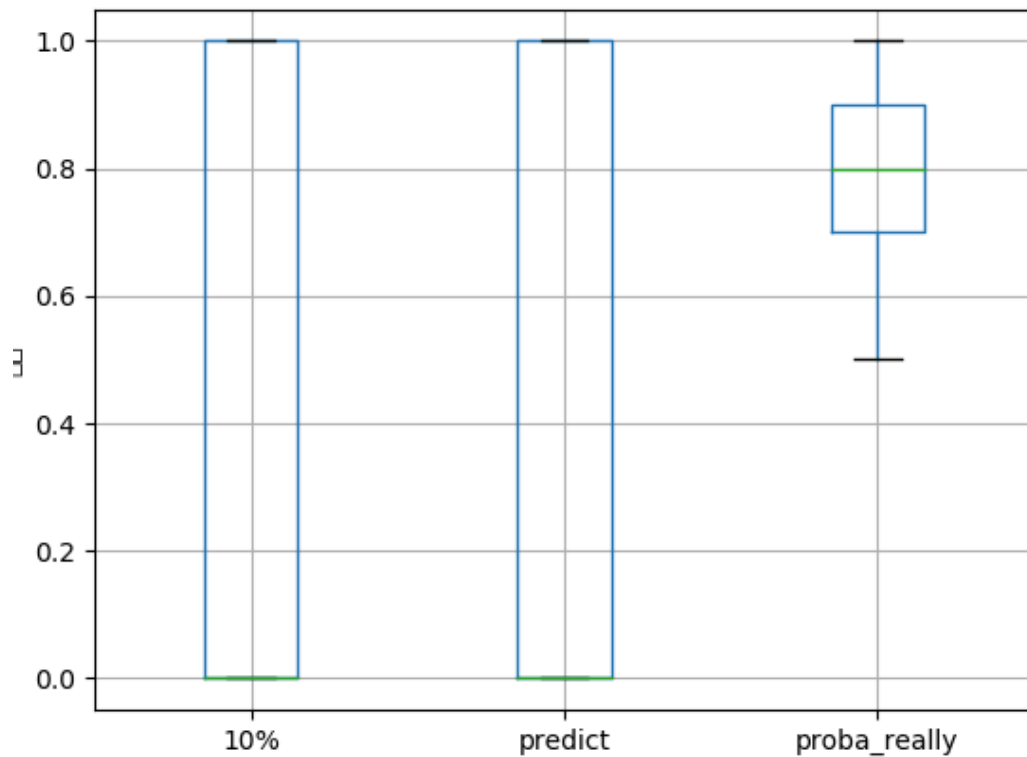
10%的预测

|       | 10%         | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2888.000000 | 2888.000000 | 2888.000000  |
| mean  | 0.245499    | 0.332410    | 0.787639     |
| std   | 0.430457    | 0.471159    | 0.157338     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 0.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



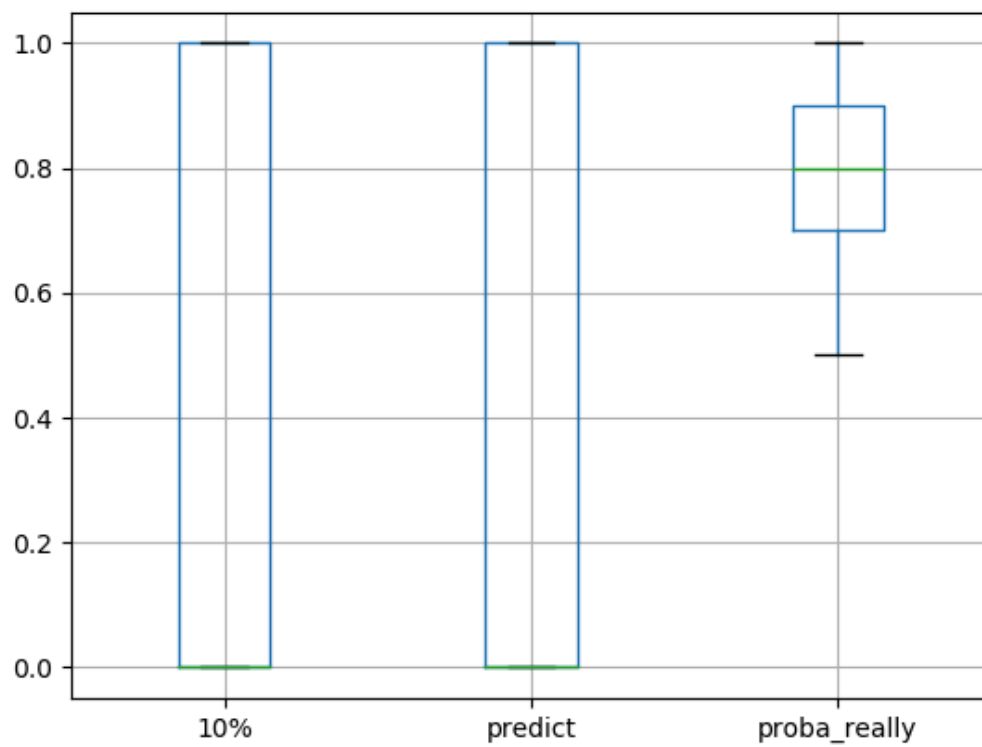
10%的正确预测

|       | 10%         | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2473.000000 | 2473.000000 | 2473.000000  |
| mean  | 0.253538    | 0.253538    | 0.804125     |
| std   | 0.435124    | 0.435124    | 0.156181     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 1.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



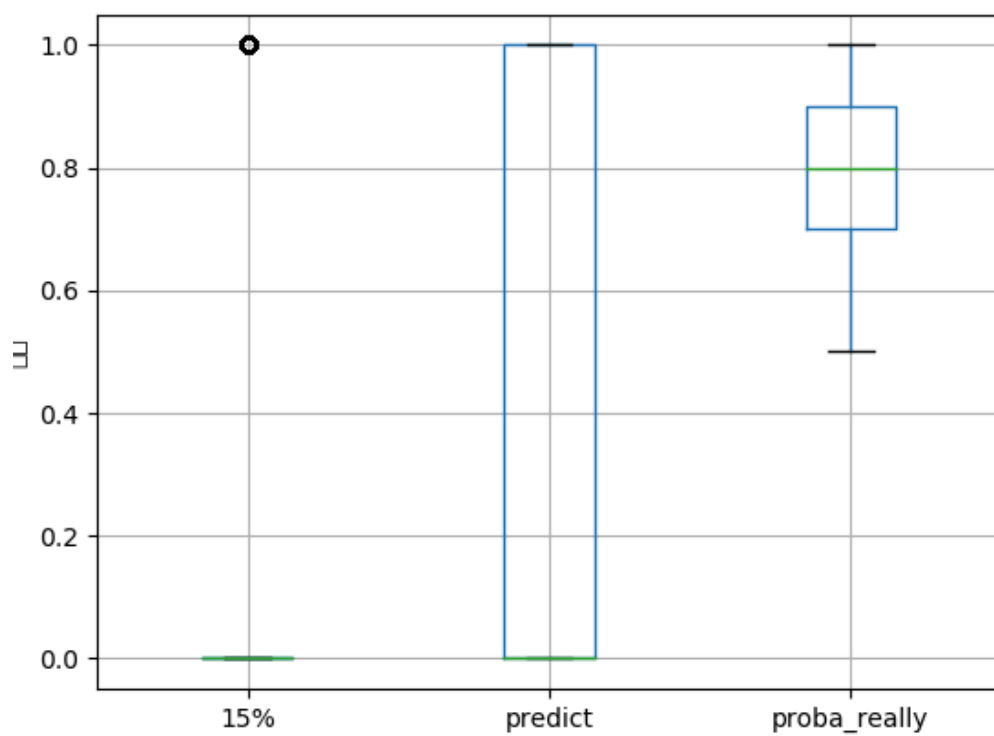
10%的错误预测

|       | 10%         | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2473.000000 | 2473.000000 | 2473.000000  |
| mean  | 0.253538    | 0.253538    | 0.804125     |
| std   | 0.435124    | 0.435124    | 0.156181     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 1.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



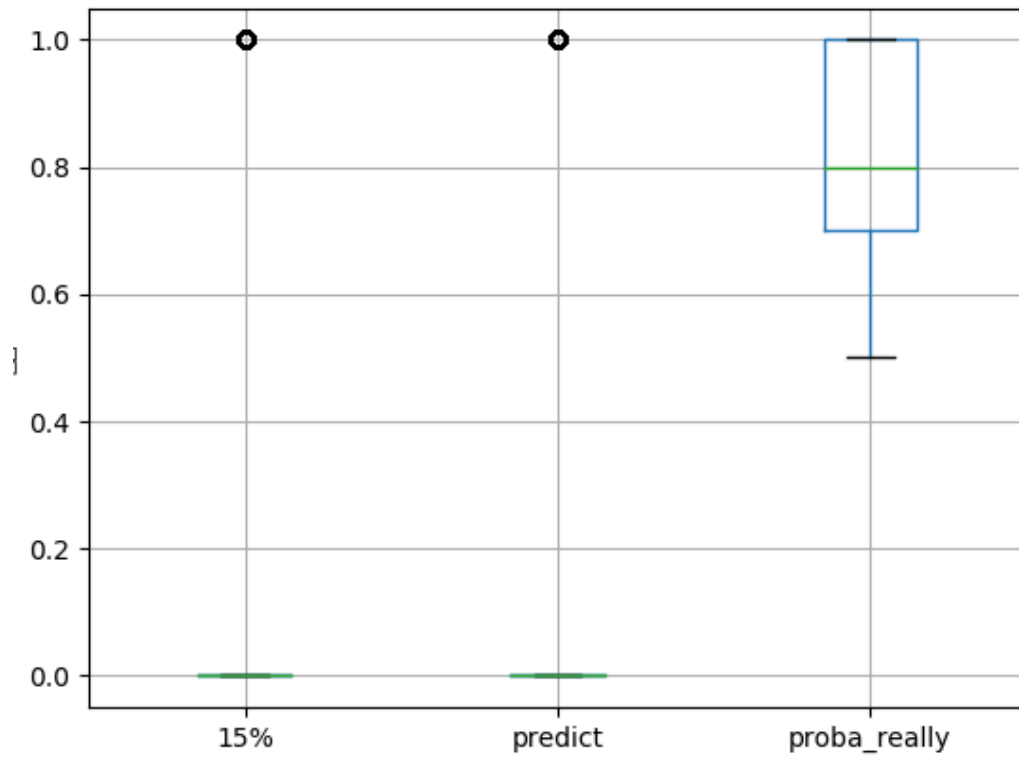
15%的预测

|       | 15%         | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2888.000000 | 2888.000000 | 2888.000000  |
| mean  | 0.197022    | 0.315097    | 0.793733     |
| std   | 0.397818    | 0.464635    | 0.160938     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 0.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



15%的正确预测

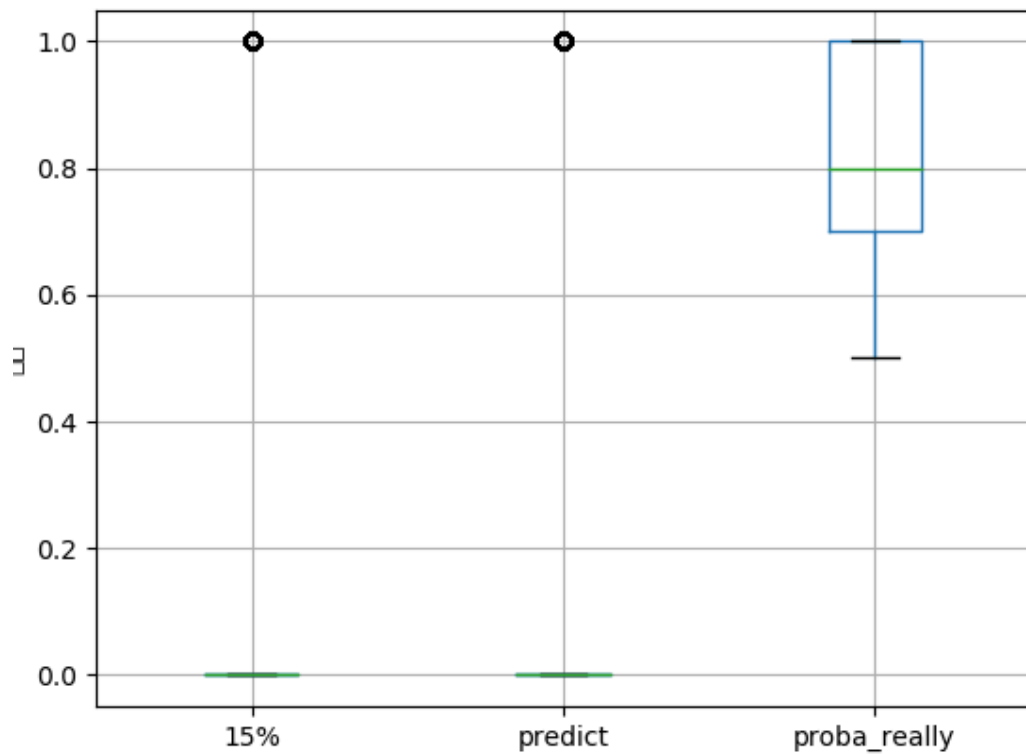
|       | 15%         | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2437.000000 | 2437.000000 | 2437.000000  |
| mean  | 0.210915    | 0.210915    | 0.815018     |
| std   | 0.408042    | 0.408042    | 0.160830     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 0.000000    | 0.000000    | 1.000000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



15%的错误预测

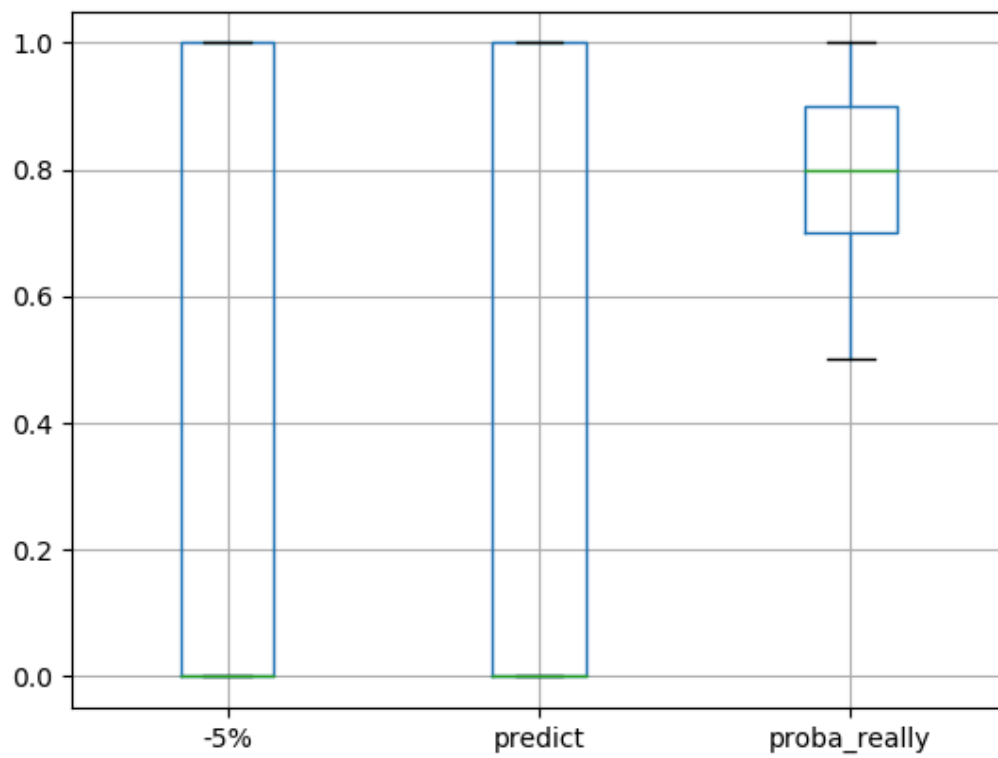
|       | 15%         | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2437.000000 | 2437.000000 | 2437.000000  |
| mean  | 0.210915    | 0.210915    | 0.815018     |
| std   | 0.408042    | 0.408042    | 0.160830     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 0.000000    | 0.000000    | 1.000000     |
| max   | 1.000000    | 1.000000    | 1.000000     |





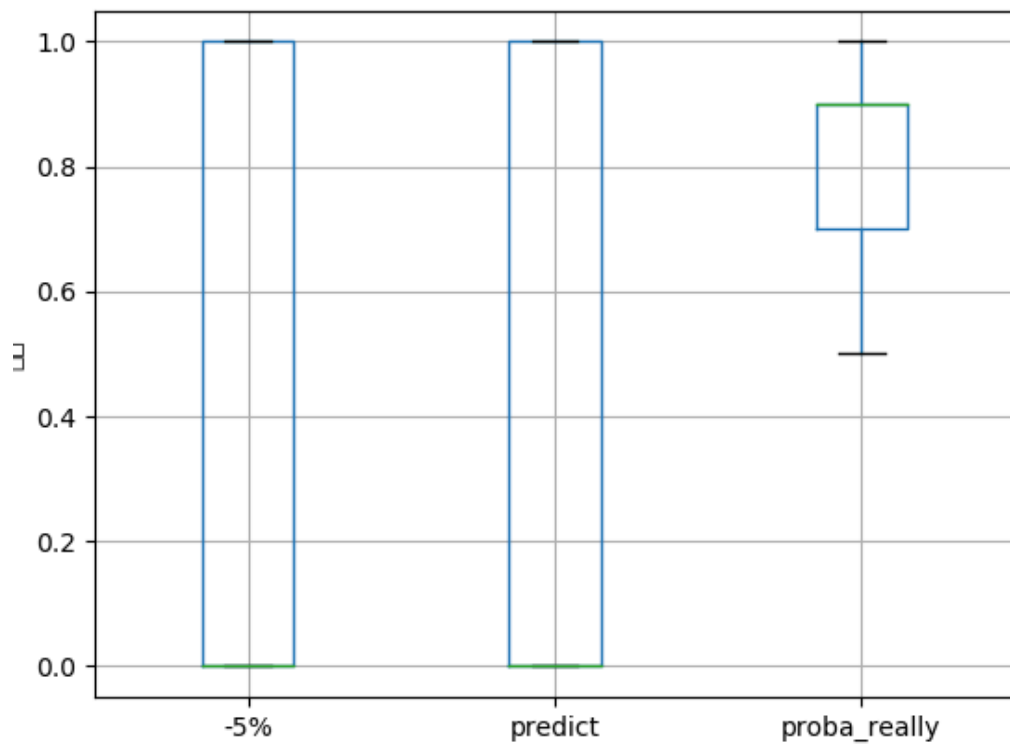
-5%的预测

|       | -5%         | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2888.000000 | 2888.000000 | 2888.000000  |
| mean  | 0.453947    | 0.460180    | 0.808310     |
| std   | 0.497961    | 0.498498    | 0.151428     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 1.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



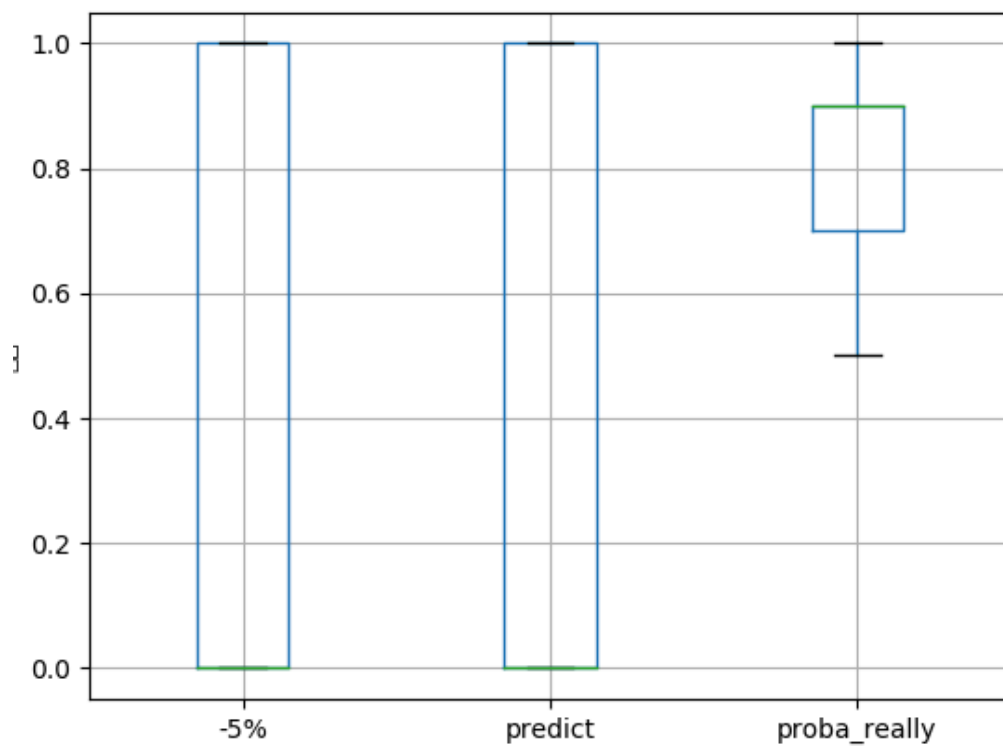
-5%的正确预测

|       | -5%         | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2642.000000 | 2642.000000 | 2642.000000  |
| mean  | 0.453066    | 0.453066    | 0.824943     |
| std   | 0.497887    | 0.497887    | 0.143714     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.900000     |
| 75%   | 1.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



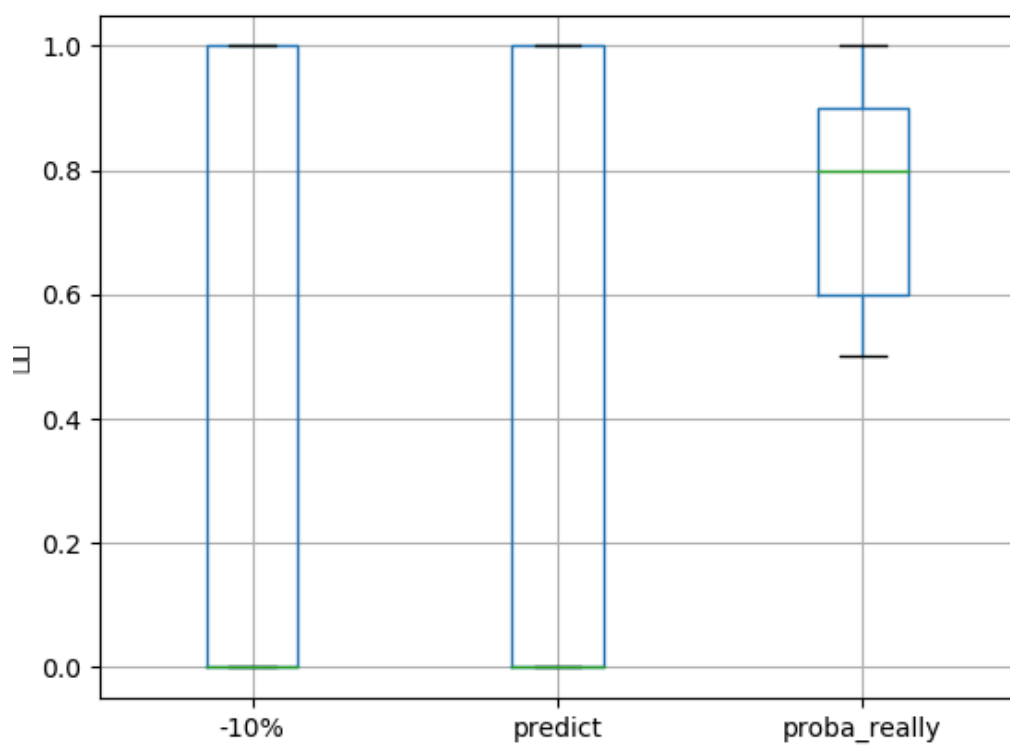
-5%的错误预测

|       | -5%         | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2642.000000 | 2642.000000 | 2642.000000  |
| mean  | 0.453066    | 0.453066    | 0.824943     |
| std   | 0.497887    | 0.497887    | 0.143714     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.900000     |
| 75%   | 1.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



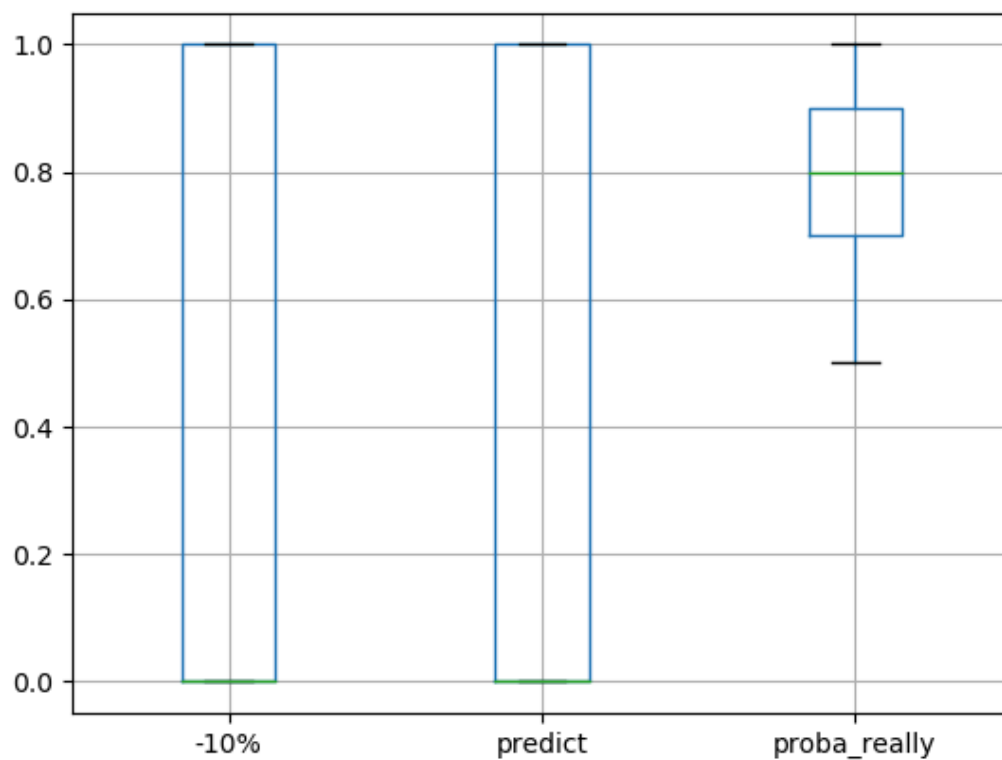
-10%的预测

|       | -10%        | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2888.000000 | 2888.000000 | 2888.000000  |
| mean  | 0.266967    | 0.364266    | 0.761219     |
| std   | 0.442451    | 0.481307    | 0.152109     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.600000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 1.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



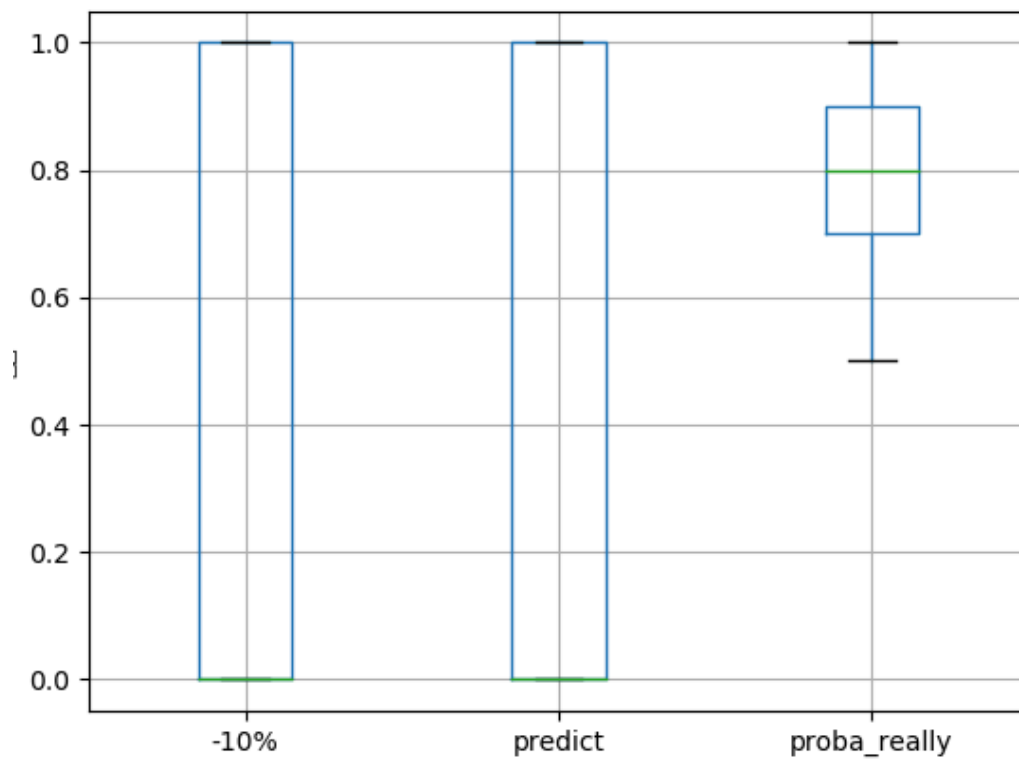
-10%的正确预测

|       | -10%        | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2439.000000 | 2439.000000 | 2439.000000  |
| mean  | 0.281673    | 0.281673    | 0.779213     |
| std   | 0.449907    | 0.449907    | 0.152254     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 1.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



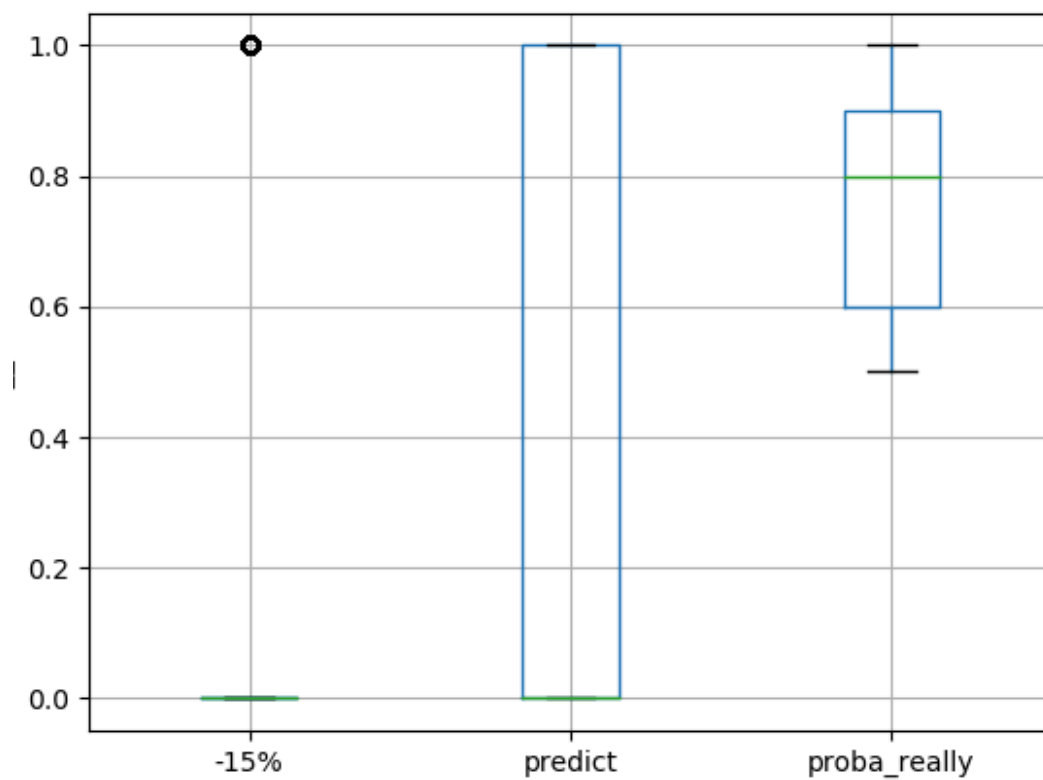
-10%的错误预测

|       | -10%        | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2439.000000 | 2439.000000 | 2439.000000  |
| mean  | 0.281673    | 0.281673    | 0.779213     |
| std   | 0.449907    | 0.449907    | 0.152254     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.700000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 1.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



-15%的预测

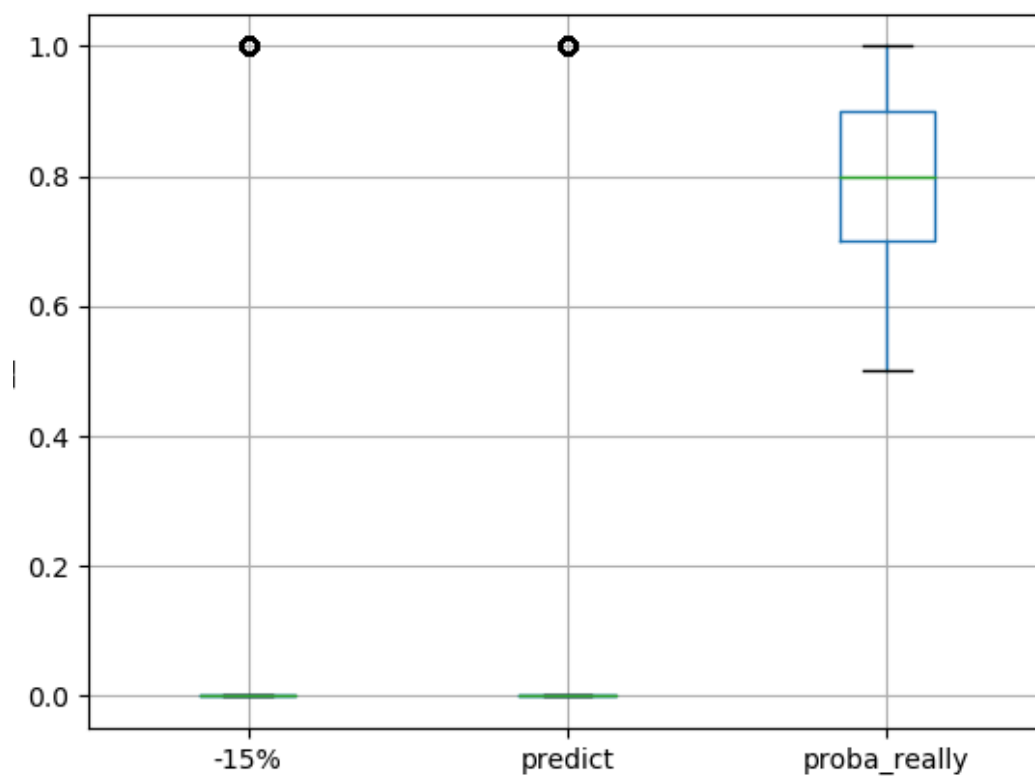
|       | -15%        | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2888.000000 | 2888.000000 | 2888.000000  |
| mean  | 0.161704    | 0.311981    | 0.783102     |
| std   | 0.368242    | 0.463382    | 0.158966     |
| min   | 0.000000    | 0.000000    | 0.500000     |
| 25%   | 0.000000    | 0.000000    | 0.600000     |
| 50%   | 0.000000    | 0.000000    | 0.800000     |
| 75%   | 0.000000    | 1.000000    | 0.900000     |
| max   | 1.000000    | 1.000000    | 1.000000     |



-15%的正确预测

|       | -15%        | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2364.000000 | 2364.000000 | 2364.000000  |
| mean  | 0.178511    | 0.178511    | 0.80203      |
| std   | 0.383023    | 0.383023    | 0.16113      |
| min   | 0.000000    | 0.000000    | 0.50000      |
| 25%   | 0.000000    | 0.000000    | 0.70000      |
| 50%   | 0.000000    | 0.000000    | 0.80000      |
| 75%   | 0.000000    | 0.000000    | 0.90000      |
| max   | 1.000000    | 1.000000    | 1.00000      |





-15%的错误预测

|       | -15%        | predict     | proba_really |
|-------|-------------|-------------|--------------|
| count | 2364.000000 | 2364.000000 | 2364.000000  |
| mean  | 0.178511    | 0.178511    | 0.80203      |
| std   | 0.383023    | 0.383023    | 0.16113      |
| min   | 0.000000    | 0.000000    | 0.50000      |
| 25%   | 0.000000    | 0.000000    | 0.70000      |
| 50%   | 0.000000    | 0.000000    | 0.80000      |
| 75%   | 0.000000    | 0.000000    | 0.90000      |
| max   | 1.000000    | 1.000000    | 1.00000      |

