Introduction

This report analyzes the prediction rules produced by the Anchors' library.

Discretization Ranges

The following attributes are discretized into four categories according to their four quartiles: "age", "mets_achieved", "resting_systolic", "resting_diastolic", "peak_diastolic", "percent_hr_achieved".

Ranges are {[0, 25%), [25%, 50%), [50%, 75%), [75%, 100%)}.

Numbers from 0 to 3 in each attribute maps to one of the following ranges:

- age: [18, 40.9, 48.26, 56.23, 79.2]
- mets_achieved: [1, 7, 10.1, 12.9, 18]
- resting_systolic: [80, 112, 122, 134, 167]
- resting_diastolic: [50, 70, 80, 84, 104]
- peak_diastolic: [50, 74, 80, 90, 114]
- percent_hr_achieved: [0.75, 0.88, 0.93, 0.98, 1.11]

Note about 'reason' attribute:

Number of unique reasons in the data set is 13 reasons. To be able to use SMOTE method for resampling the 'reason' attribute was categorized numerically according to the following mapping:

```
0: 'Ab0rmal Test',
1: 'Arrhythmia',
2: 'Chest Pain',
3: 'Conduction System Disease',
4: 'Dizzy, Fatigue',
5: 'K0wn CAD',
6: 'Other',
7: 'Palpitation',
8: 'Pre-Operation',
9: 'Risk Factor',
10: 'Rule out Ischemia',
11: 'Screening, Research',
12: 'Shortness of Breath'
```

Anchors Definition

An anchor is a sufficient condition - that is, **when the anchor holds**, the prediction should be the same as the prediction for this instance for unseen instances.

Note that if we set threshold to 0.95 when producing an anchor, we guarantee (with high probability) that precision will be above 0.95 - that is predictions on instances where the anchor holds will be the same as the original prediction at least 95% of the time.

Wrong Predictions

The wrongly predicted instances in both cases (false positives and false negative) were categorized into 3 groups each with the following conditions:

We will make divide FP and FN into 3 groups each, with the following conditions:

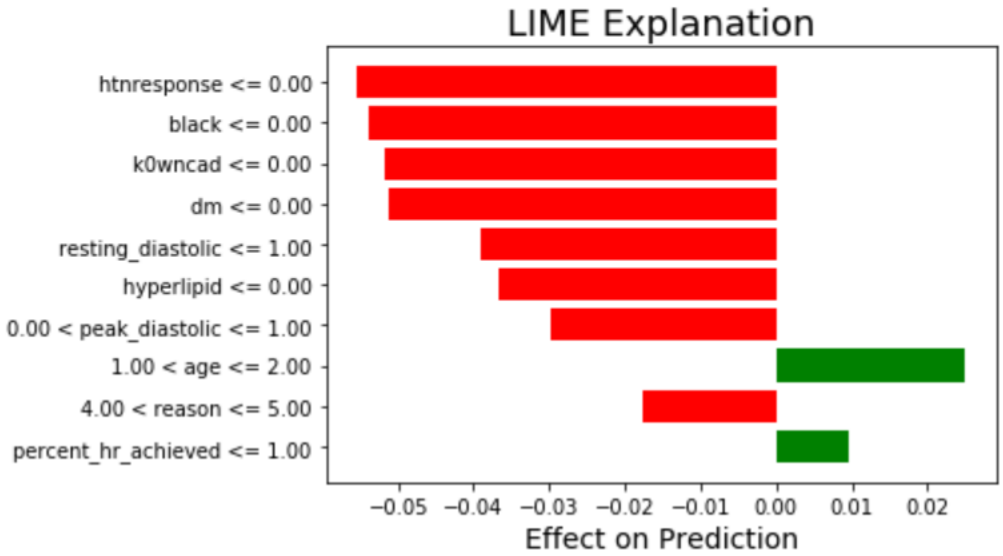
1) 0.0 <= probability < 0.2
2) 0.2 <= probability < 0.35
3) 0.35 <= probability < 0.5

False Positive Anchors: 1st Group

There are 31 FP instances. We list first 10 samples from them.

```
Instance #1 being explained:
```

```
age                   2.0
mets_achieved         1.0
resting_systolic      2.0
resting_diastolic     1.0
peak_diastolic        1.0
reason                5.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            0.0
black                 0.0
percent_hr_achieved   1.0
```

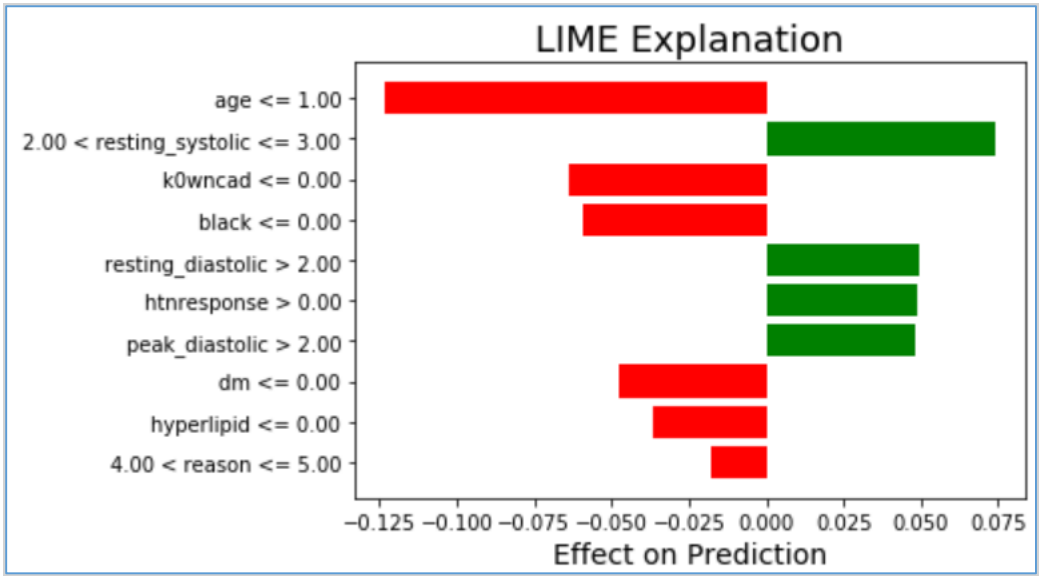



```
Anchor for the Instance:
```

```
percent_hr_achieved = 1 AND
resting_systolic = 2 AND
age = 2 AND
mets_achieved = 1 AND
resting_diastolic = 1 AND
reason = 2 AND
k0wncad = 0 AND
hyperlipid = 0 AND
peak_diastolic = 1

Precision: 0.91
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict b'1' **90.8%** of the time

```
Instance #2 being explained:

                          age                   0.0
                          mets_achieved         2.0
                          resting_systolic      3.0
                          resting_diastolic     3.0
                          peak_diastolic        3.0
                          reason                5.0
                          htnresponse           1.0
                          k0wncad               0.0
                          dm                    0.0
                          aspirin               0.0
                          hyperlipid            0.0
                          black                 0.0
                          percent_hr_achieved   1.0
```



Anchor for the Instance:

resting_systolic = 3 AND
htnresponse = 1 AND
peak_diastolic = 3 AND
mets_achieved = 2 AND
resting_diastolic = 3 AND
percent_hr_achieved = 1

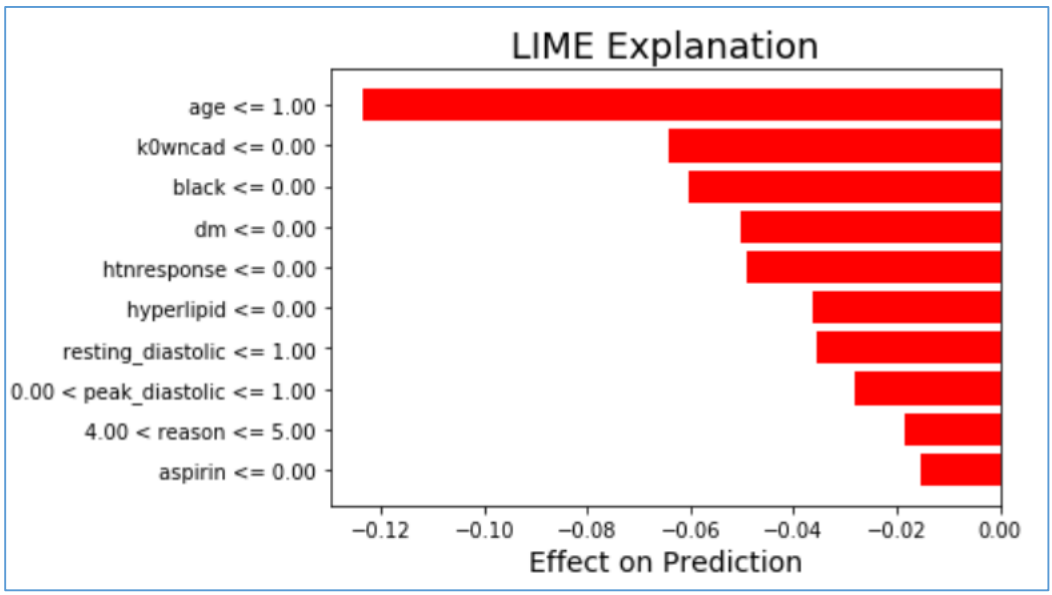
Precision: 0.95
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00

If ALL of these are true:
The A.I. will predict b'1' **95.2%** of the time

Instance #3 being explained:

age	1.0
mets_achieved	1.0
resting_systolic	2.0
resting_diastolic	1.0
peak_diastolic	1.0
reason	5.0
htnresponse	0.0
k0wncad	0.0
dm	0.0
aspirin	0.0
hyperlipid	0.0
black	0.0
percent_hr_achieved	1.0



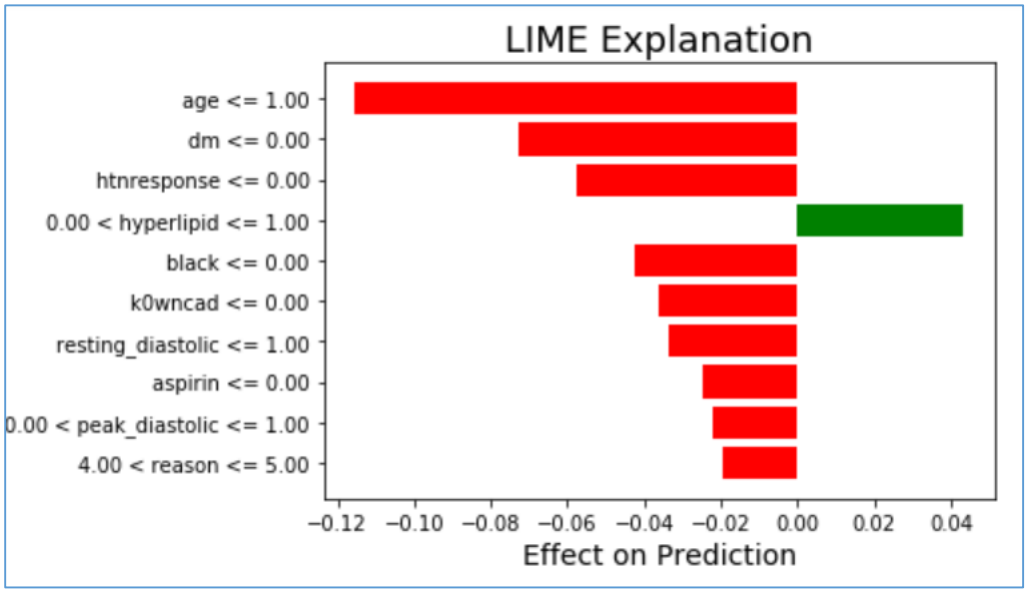
Anchor for the Instance:

```
mets_achieved = 1 AND
resting_diastolic = 1 AND
dm = 0 AND
reason = 2 AND
percent_hr_achieved = 1 AND
resting_systolic = 2 AND
aspirin = 0 AND
htnresponse = 0 AND
k0wncad = 0 AND
black = 0 AND
peak_diastolic = 1 AND
age = 1

Precision: 1.00
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict b'1'**100.0%** of the time.

```
Instance #4 being explained:

age                   1.0
mets_achieved         2.0
resting_systolic      2.0
resting_diastolic     1.0
peak_diastolic        1.0
```

```
reason                  5.0
htnresponse             0.0
k0wncad                 0.0
dm                      0.0
aspirin                 0.0
hyperlipid              1.0
black                   0.0
percent_hr_achieved     3.0
```

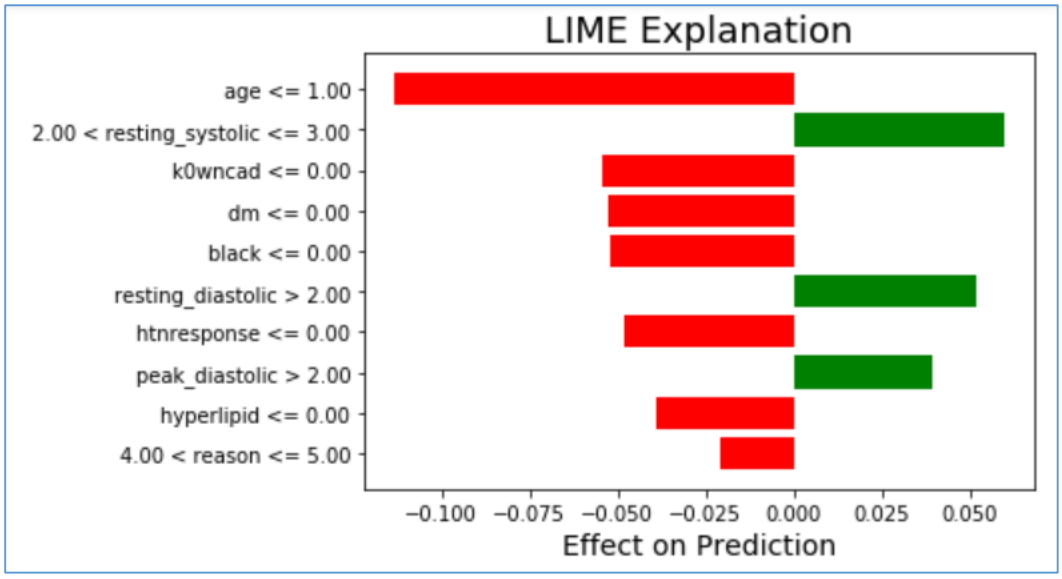



```
Anchor for the Instance:

mets_achieved = 2 AND
hyperlipid = 1 AND
percent_hr_achieved = 3 AND
resting_diastolic = 1 AND
resting_systolic = 2 AND
age = 1

Precision: 0.92
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict b'1' **92.1%** of the time

```
Instance #5 being explained:

age                     1.0
mets_achieved           1.0
```

```
resting_systolic        3.0
resting_diastolic       3.0
peak_diastolic          3.0
reason                  5.0
htnresponse             0.0
k0wncad                 0.0
dm                      0.0
aspirin                 0.0
hyperlipid              0.0
black                   0.0
percent_hr_achieved     1.0
```



Anchor for the Instance:

```
resting_systolic = 3 AND
peak_diastolic = 3 AND
mets_achieved = 1 AND
resting_diastolic = 3 AND
percent_hr_achieved = 1 AND
reason = 2 AND
black = 0 AND
age = 1
```

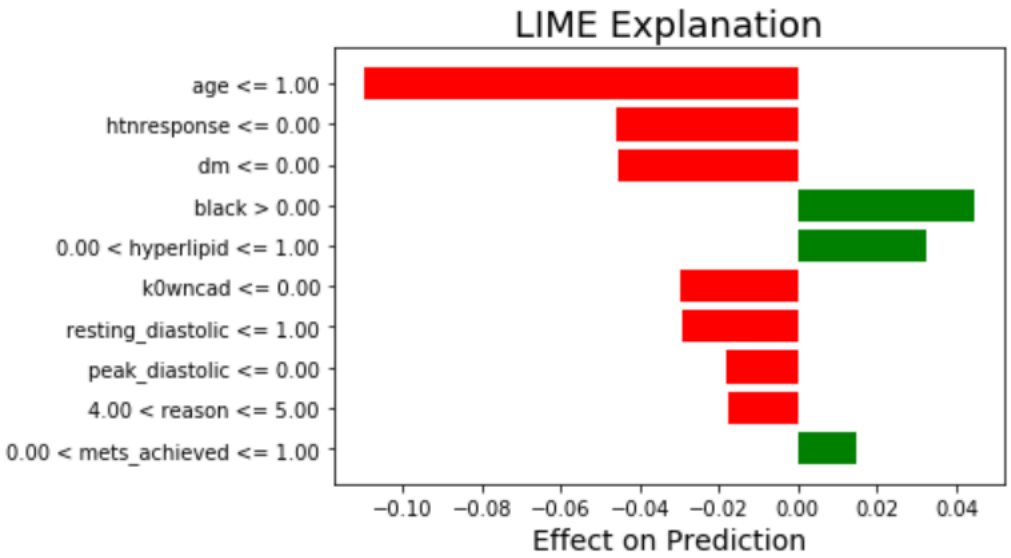
```
Precision: 0.95
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of the previous rules are true:
The A.I. will predict b'1' **95.0%** of the time

False Positive Anchors: 2nd Group

There are 77 FP instances. We list first 5 samples from them.

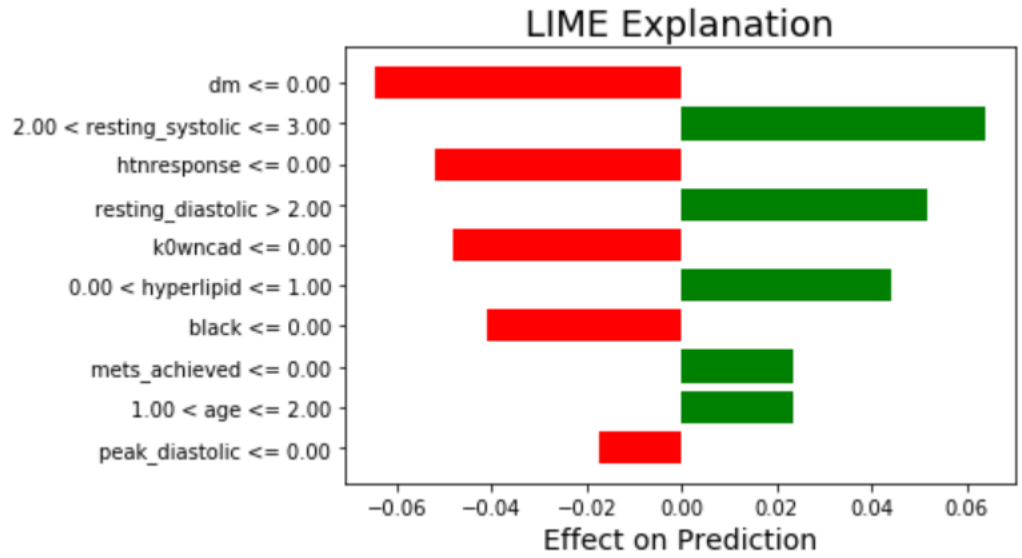
```
Instance #1 being explained:
age                   1.0
mets_achieved         1.0
resting_systolic      2.0
resting_diastolic     1.0
peak_diastolic        0.0
reason                5.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            1.0
black                 1.0
percent_hr_achieved   0.0
```




```
Anchor for the Instance:

black = 1 AND
hyperlipid = 1 AND
percent_hr_achieved = 0 AND
resting_systolic = 2 AND
mets_achieved = 1 AND
age = 1 AND
resting_diastolic = 1

Precision: 0.94
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
```

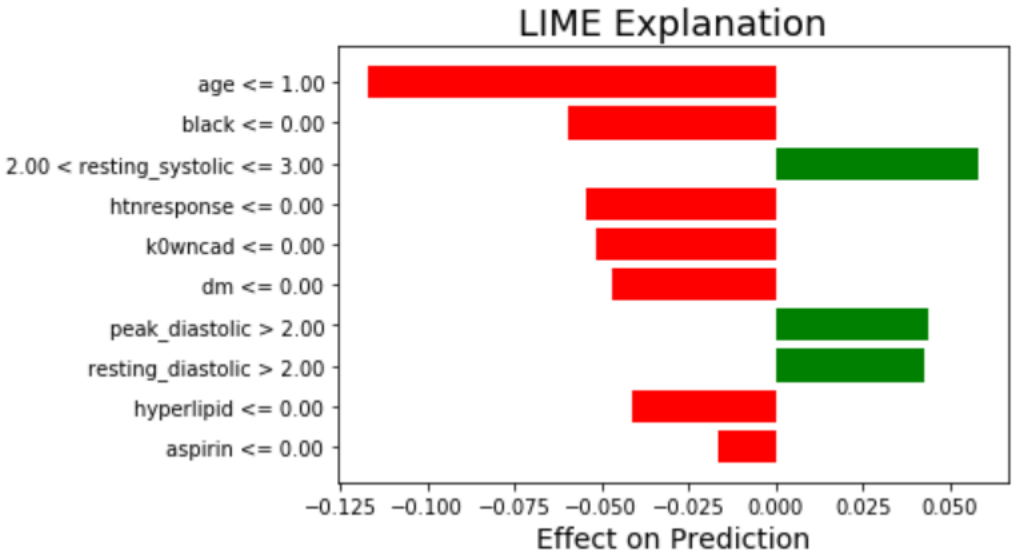
```
Anchor test coverage: 0.00
```

```
Instance #2 being explained:

age                     2.0
mets_achieved           0.0
resting_systolic        3.0
resting_diastolic       3.0
peak_diastolic          0.0
reason                 12.0
htnresponse             0.0
k0wncad                 0.0
dm                      0.0
aspirin                 0.0
hyperlipid              1.0
black                   0.0
percent_hr_achieved     3.0
```



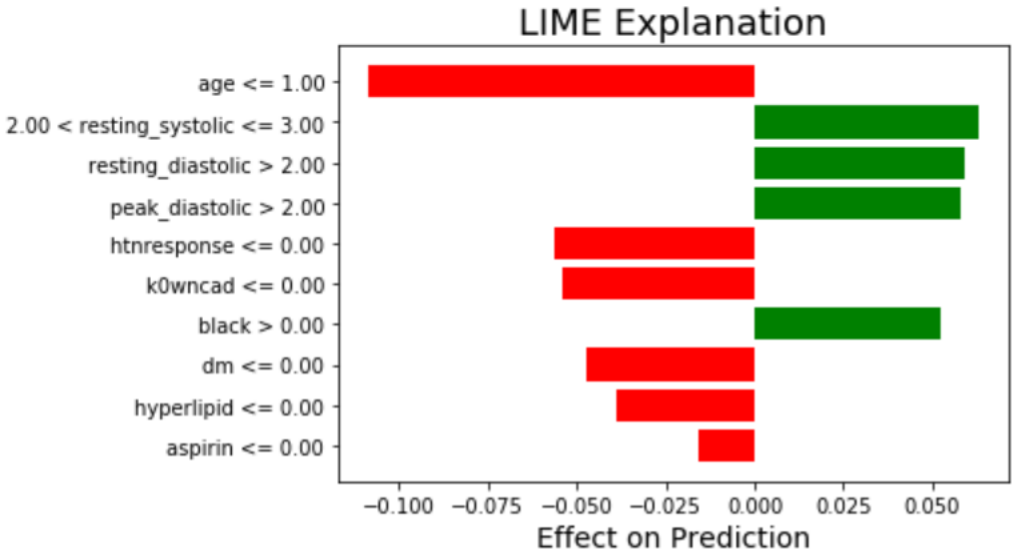

```
Anchor for the Instance:

resting_systolic = 3 AND
resting_diastolic = 3 AND
reason = 9 AND
percent_hr_achieved = 3

Precision: 0.92
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 0.86
Anchor test coverage: 0.00
```

```
Instance #3 being explained:

age                    1.0
mets_achieved          2.0
resting_systolic       3.0
resting_diastolic      3.0
peak_diastolic         3.0
reason                 9.0
htnresponse            0.0
k0wncad                0.0
dm                     0.0
aspirin                0.0
hyperlipid             0.0
black                  0.0
percent_hr_achieved    3.0
```




```
Anchor for the Instance:

resting_systolic = 3 AND
peak_diastolic = 3 AND
resting_diastolic = 3 AND
reason = 6 AND
age = 1 AND
mets_achieved = 2

Precision: 0.94
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00


Instance #4 being explained:
```

```
age                   0.0
mets_achieved         1.0
resting_systolic      3.0
resting_diastolic     3.0
peak_diastolic        3.0
reason                5.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            0.0
black                 1.0
percent_hr_achieved   1.0
```



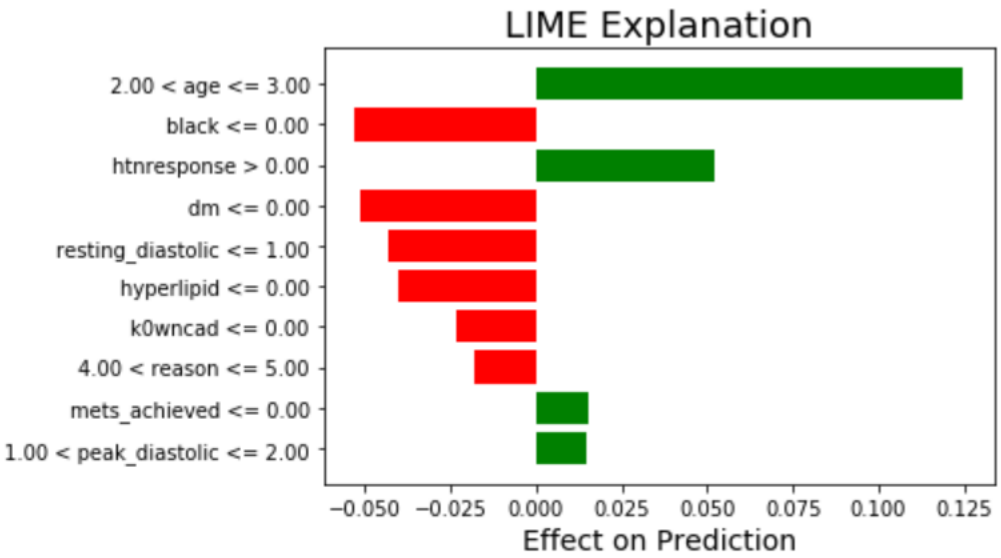
Anchor for the Instance:

```
resting_systolic = 3 AND
peak_diastolic = 3 AND
black = 1 AND
mets_achieved = 1 AND
resting_diastolic = 3 AND
htnresponse = 0 AND
k0wncad = 0 AND
aspirin = 0
```

```
Precision: 0.90
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

```
Instance #5 being explained:
```

```
age                   3.0
mets_achieved         0.0
resting_systolic      2.0
resting_diastolic     0.0
peak_diastolic        2.0
reason                5.0
htnresponse           1.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            0.0
black                 0.0
percent_hr_achieved   3.0
```



Anchor for the Instance:

age = 3 AND
htnresponse = 1 AND
peak_diastolic = 2 AND
mets_achieved = 0

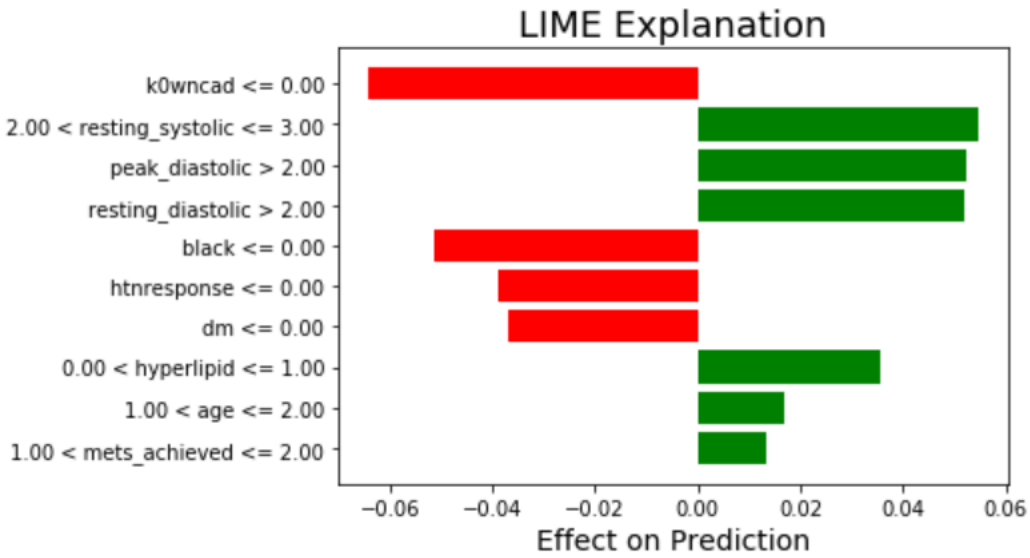
Precision: 0.93
Coverage: 0.01

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.01

False Positive Anchors: 3rd Group

There are 89 FP instances in this group. We list first 5 samples from them.

```
Instance #1 being explained:
age                   2.0
mets_achieved         2.0
resting_systolic      3.0
resting_diastolic     3.0
peak_diastolic        3.0
reason                3.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            1.0
black                 0.0
percent_hr_achieved   0.0
```



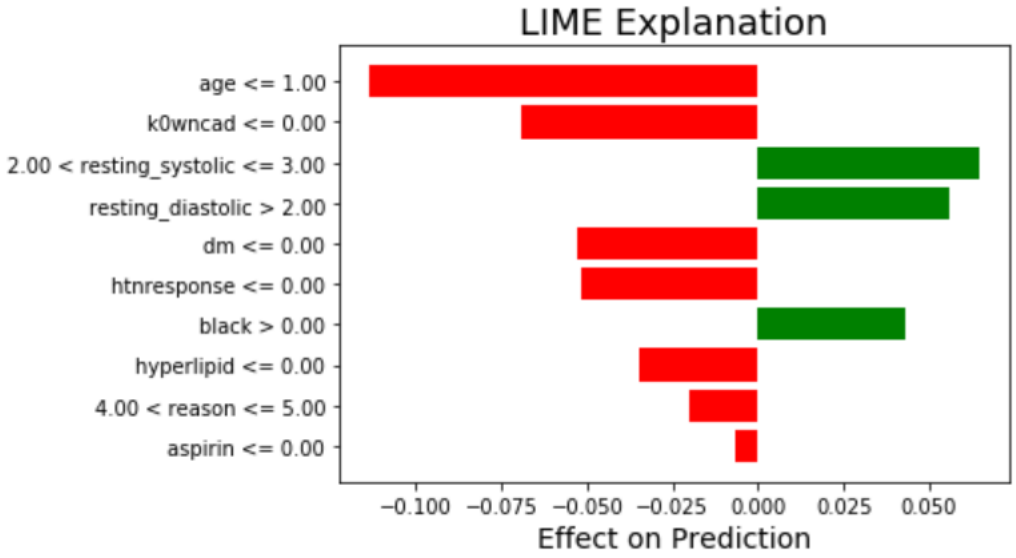
Anchor for the Instance:

```
resting_systolic = 3 AND
peak_diastolic = 3 AND
age = 2 AND
mets_achieved = 2 AND
reason = 11

Precision: 0.95
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:

The A.I. will predict b'1' **95.2%** of the time

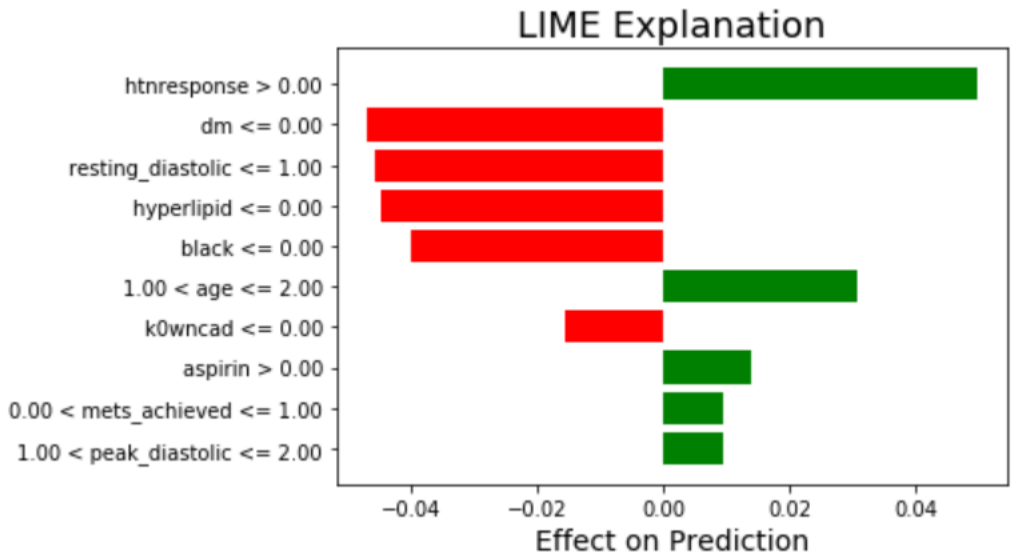
```
Instance #2 being explained:
age                     1.0
mets_achieved           2.0
resting_systolic        3.0
resting_diastolic       3.0
peak_diastolic          2.0
reason                  5.0
htnresponse             0.0
k0wncad                 0.0
dm                      0.0
aspirin                 0.0
hyperlipid              0.0
black                   1.0
percent_hr_achieved     1.0
```




```
Anchor for the Instance:

black = 1 AND
resting_systolic = 3 AND
mets_achieved = 2 AND
resting_diastolic = 3

Precision: 0.93
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 0.92
Anchor test coverage: 0.01
```

If ALL of these are true:
The A.I. will predict b'1' **93.2%** of the time

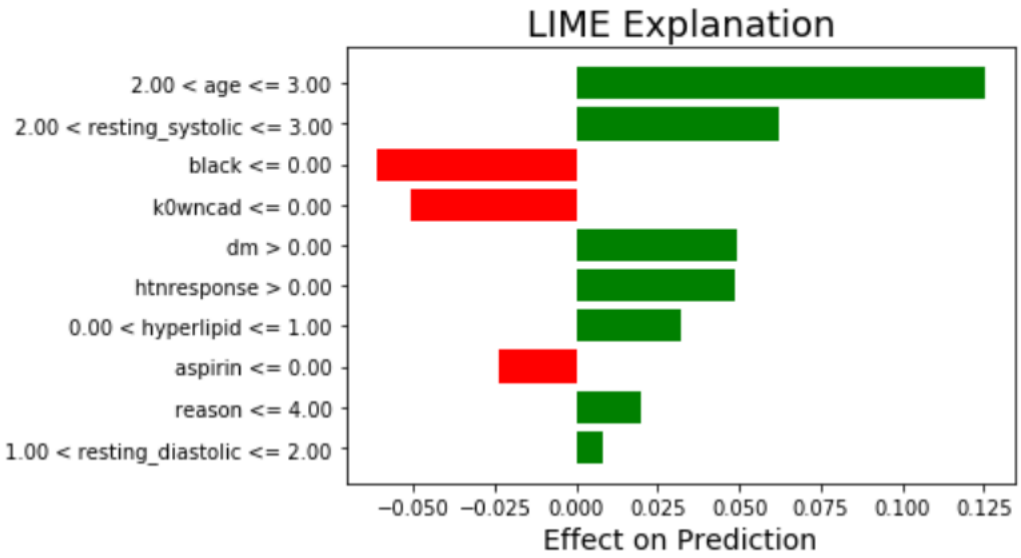
```
Instance #3 being explained:

age                   2.0
mets_achieved         1.0
resting_systolic      2.0
resting_diastolic     1.0
peak_diastolic        2.0
reason                5.0
htnresponse           1.0
k0wncad               0.0
dm                    0.0
aspirin               1.0
hyperlipid            0.0
black                 0.0
percent_hr_achieved   2.0
```




```
Anchor for the Instance:

htnresponse = 1 AND
aspirin = 1 AND
age = 2 AND
peak_diastolic = 2 AND
resting_diastolic = 1 AND
hyperlipid = 0

Precision: 0.94
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict b'1' **93.6%** of the time

```
Instance #4 being explained:

age                     3.0
mets_achieved           1.0
resting_systolic        3.0
resting_diastolic       2.0
peak_diastolic          2.0
reason                  4.0
htnresponse             1.0
k0wncad                 0.0
dm                      1.0
aspirin                 0.0
hyperlipid              1.0
black                   0.0
percent_hr_achieved     3.0
```

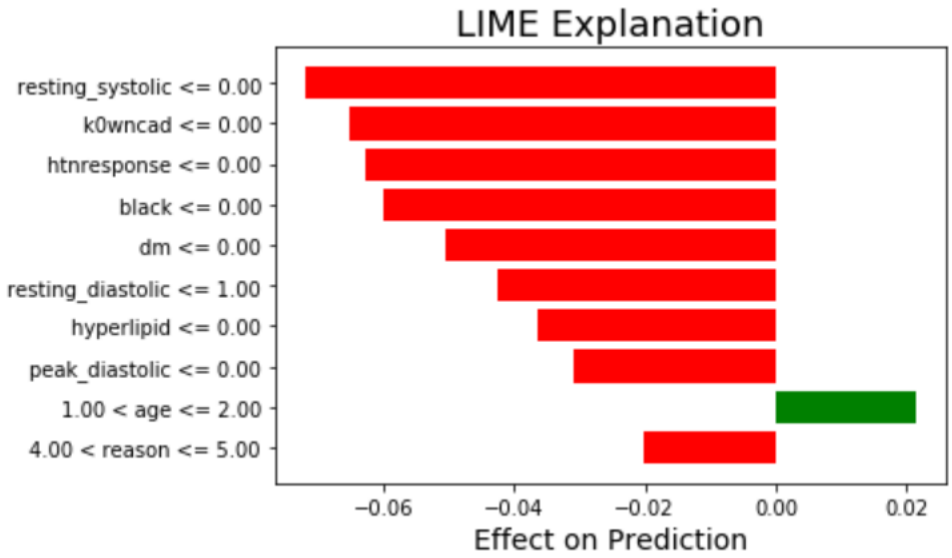



```
Anchor for the Instance:

dm = 1 AND
age = 3 AND
resting_systolic = 3

Precision: 0.97
Coverage: 0.02

Test examples where the anchor applies:
Anchor test precision: 0.80
Anchor test coverage: 0.01
```

If ALL of these are true:
The A.I. will predict b'1' **97.2%** of the time

```
Instance #5 being explained:
age                     2.0
```

```
mets_achieved          1.0
resting_systolic       0.0
resting_diastolic      1.0
peak_diastolic         0.0
reason                 5.0
htnresponse            0.0
k0wncad                0.0
dm                     0.0
aspirin                0.0
hyperlipid             0.0
black                  0.0
percent_hr_achieved    1.0
```



Anchor for the Instance:

```
htnresponse = 0 AND
mets_achieved = 1 AND
resting_diastolic = 1 AND
age = 2 AND
percent_hr_achieved = 1 AND
peak_diastolic = 0 AND
reason = 2 AND
black = 0
```

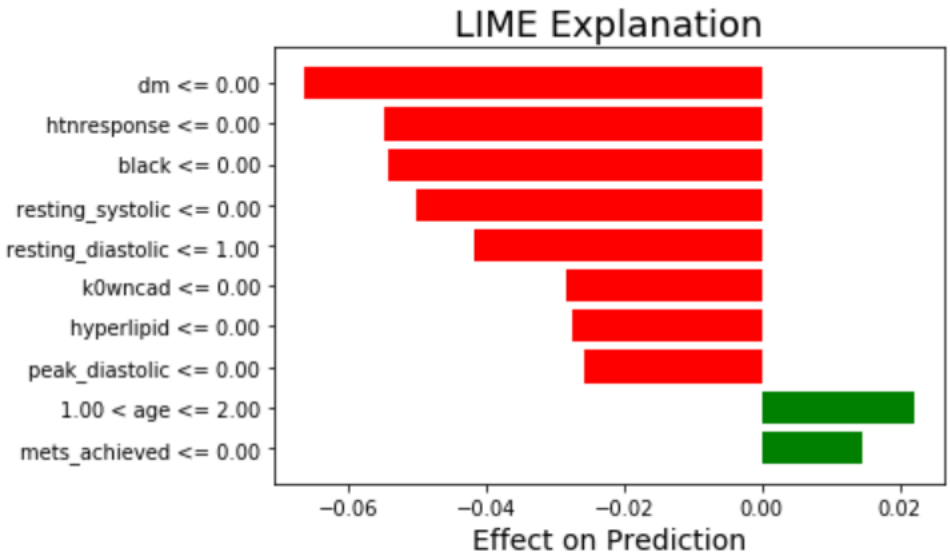
```
Precision: 0.96
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict b'1' **95.5%** of the time

False Negative Anchors: 1st Group

There are 51 FP instances in this group. We list first 5 samples from them.

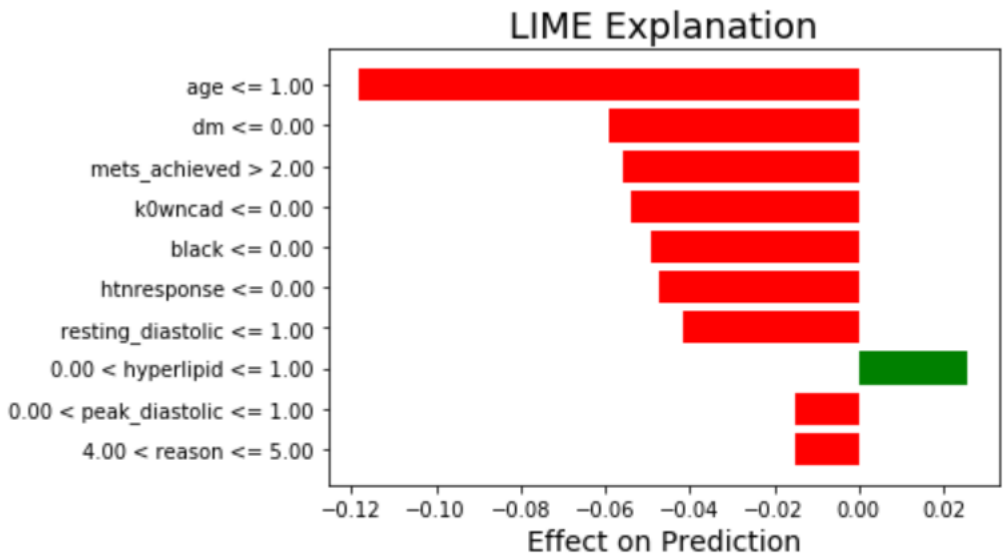
```
Instance #1 being explained:

age                   2.0
mets_achieved         0.0
resting_systolic      0.0
resting_diastolic     0.0
peak_diastolic        0.0
reason                5.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            0.0
black                 0.0
percent_hr_achieved   1.0
```




```
Anchor for the Instance:

resting_diastolic = 0 AND
resting_systolic = 0 AND
peak_diastolic = 0 AND
reason = 2 AND
hyperlipid = 0 AND
black = 0

Precision: 0.91
Coverage: 0.02

Test examples where the anchor applies:
Anchor test precision: 0.93
Anchor test coverage: 0.03
```

If ALL of these are true:
The A.I. will predict b'0' **90.6%** of the time

```
Instance #2 being explained:

age                   1.0
mets_achieved         3.0
resting_systolic      1.0
resting_diastolic     1.0
peak_diastolic        1.0
reason                5.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            1.0
black                 0.0
percent_hr_achieved   3.0
```



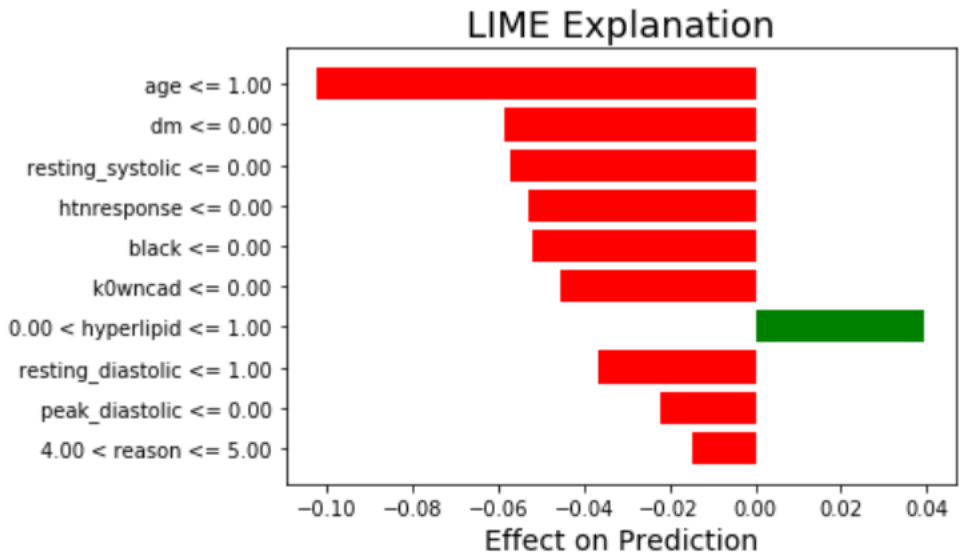
Anchor for the Instance:

```
mets_achieved = 3 AND
resting_systolic = 1 AND
htnresponse = 0 AND
k0wncad = 0 AND
dm = 0 AND
reason = 2 AND
black = 0 AND
aspirin = 0 AND
hyperlipid = 1 AND
peak_diastolic = 1 AND
age = 1
```

```
Precision: 1.00
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict b'0'**100.0%** of the time

```
Instance #3 being explained:
age                   0.0
mets_achieved         1.0
resting_systolic      0.0
resting_diastolic     0.0
peak_diastolic        0.0
reason                5.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            1.0
black                 0.0
percent_hr_achieved   1.0
```

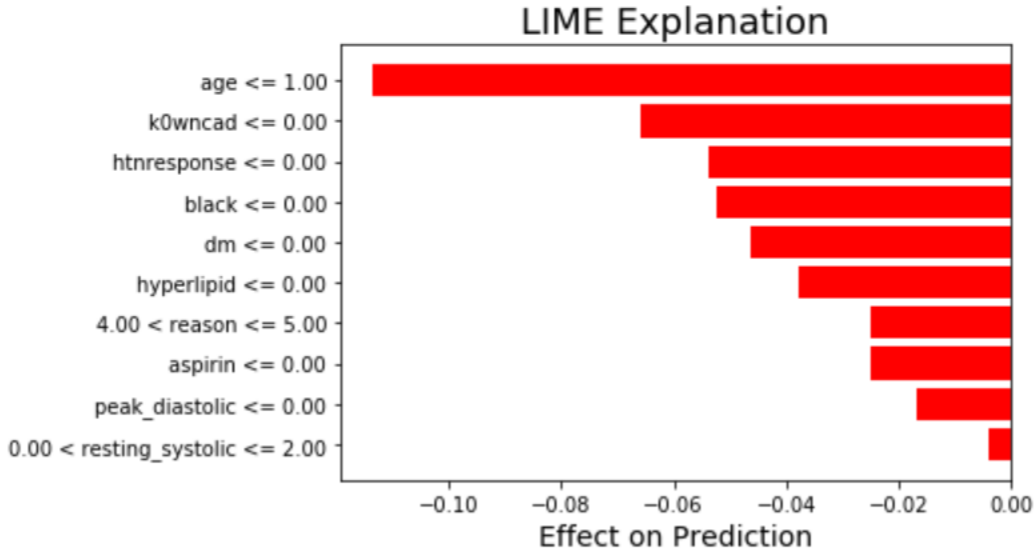



```
Anchor for the Instance:

age = 0 AND
resting_diastolic = 0 AND
peak_diastolic = 0 AND
resting_systolic = 0 AND
mets_achieved = 1
```

```
Precision: 0.94
Coverage: 0.01

Test examples where the anchor applies:
Anchor test precision: 0.91
Anchor test coverage: 0.01
```

If ALL of these are true:
The A.I. will predict b'0'**93.8%** of the time

```
Instance #4 being explained:

age                   0.0
mets_achieved         2.0
resting_systolic      2.0
resting_diastolic     2.0
peak_diastolic        0.0
reason                5.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            0.0
black                 0.0
percent_hr_achieved   3.0
```




```
Anchor for the Instance:

age = 0 AND
peak_diastolic = 0 AND
hyperlipid = 0 AND
black = 0 AND
htnresponse = 0 AND
```

resting_diastolic = 2

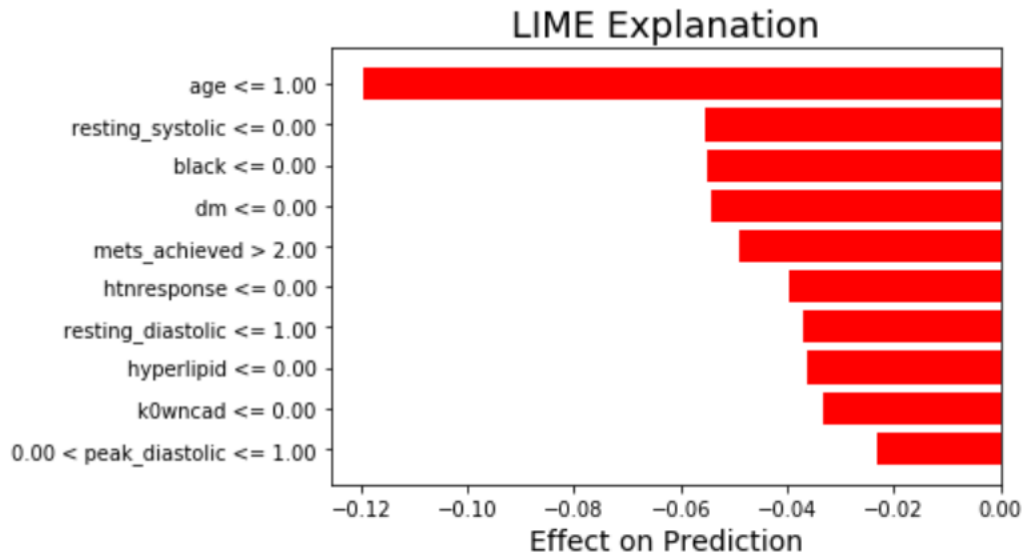
Precision: 0.91
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 0.75
Anchor test coverage: 0.00

If ALL of these are true:
The A.I. will predict b'0'**91.3%** of the time

Instance #5 being explained:

age	0.0
mets_achieved	3.0
resting_systolic	0.0
resting_diastolic	0.0
peak_diastolic	1.0
reason	5.0
htnresponse	0.0
k0wncad	0.0
dm	0.0
aspirin	0.0
hyperlipid	0.0
black	0.0
percent_hr_achieved	2.0



Anchor for the Instance:

age = 0 AND
mets_achieved = 3 AND
resting_systolic = 0

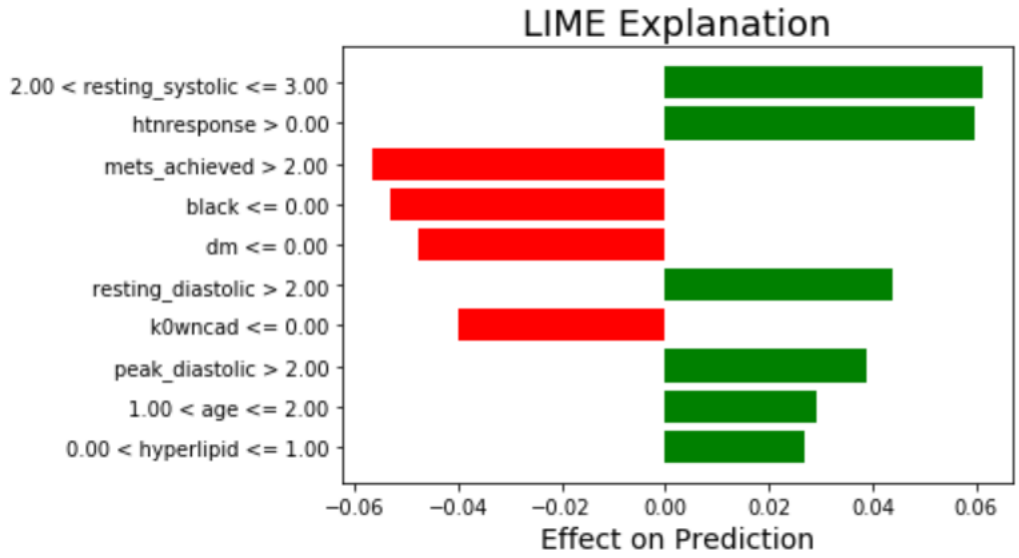
```
Precision: 0.98
Coverage: 0.02

Test examples where the anchor applies:
Anchor test precision: 0.83
Anchor test coverage: 0.02
```

If ALL of these are true:
The A.I. will predict b'0'**98.1%** of the time

False Negative Anchors: 2nd Group

There are 54 FP instances in this group. We list first 5 samples from them.

```
Instance #1 being explained:

age                   2.0
mets_achieved         3.0
resting_systolic      3.0
resting_diastolic     3.0
peak_diastolic        3.0
reason                2.0
htnresponse           1.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            1.0
black                 0.0
percent_hr_achieved   3.0
```

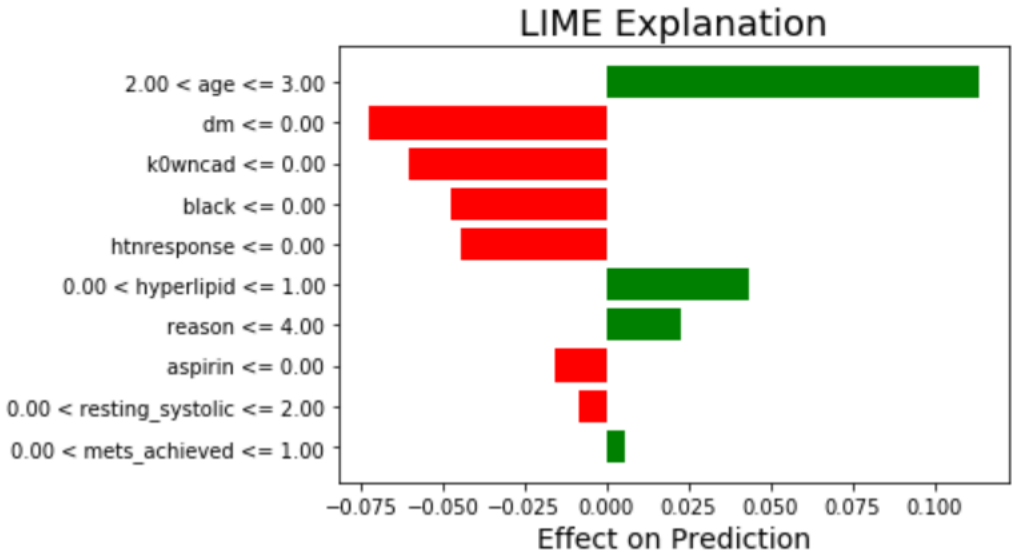



```
Anchor for the Instance:

mets_achieved = 3 AND
aspirin = 0 AND
dm = 0 AND
reason = 10 AND
black = 0 AND
k0wncad = 0 AND
percent_hr_achieved = 3 AND
hyperlipid = 1 AND
resting_systolic = 3 AND
peak_diastolic = 3 AND
age = 2 AND
htnresponse = 1

Precision: 1.00
```

```
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict **b'0'100.0%** of the time

```
Instance #2 being explained:

age                   3.0
mets_achieved         1.0
resting_systolic      2.0
resting_diastolic     2.0
peak_diastolic        2.0
reason                2.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            1.0
black                 0.0
percent_hr_achieved   2.0
```

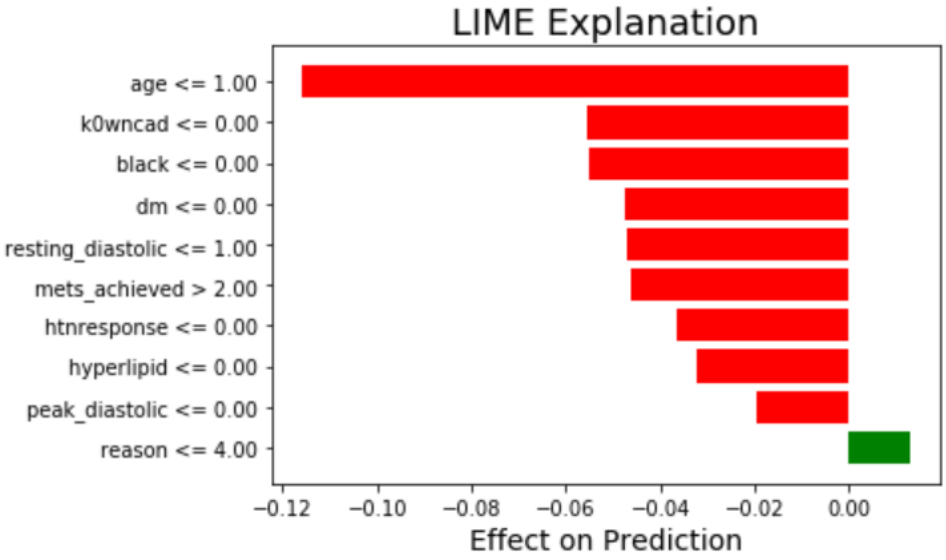



```
Anchor for the Instance:

black = 0 AND
htnresponse = 0 AND
dm = 0 AND
aspirin = 0 AND
resting_diastolic = 2 AND
resting_systolic = 2 AND
mets_achieved = 1 AND
```

```
peak_diastolic = 2 AND
age = 3 AND
reason = 10

Precision: 0.97
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict b'0'**97.5%** of the time

```
Instance #3 being explained:

age                   1.0
mets_achieved         3.0
resting_systolic      1.0
resting_diastolic     0.0
peak_diastolic        0.0
reason                1.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               1.0
hyperlipid            0.0
black                 0.0
percent_hr_achieved   1.0
```

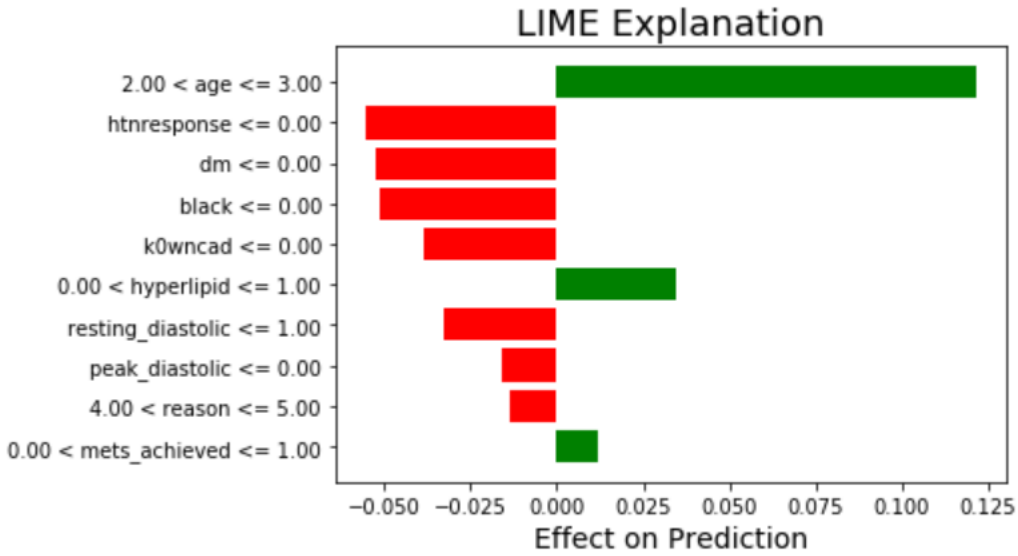



```
Anchor for the Instance:

mets_achieved = 3 AND
resting_diastolic = 0 AND
```

```
percent_hr_achieved = 1 AND
resting_systolic = 1

Precision: 0.96
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict b'0'**96.1%** of the time

```
Instance #4 being explained:

age                     3.0
mets_achieved           1.0
resting_systolic        1.0
resting_diastolic       1.0
peak_diastolic          0.0
reason                  5.0
htnresponse             0.0
k0wncad                 0.0
dm                      0.0
aspirin                 0.0
hyperlipid              1.0
black                   0.0
percent_hr_achieved     2.0
```

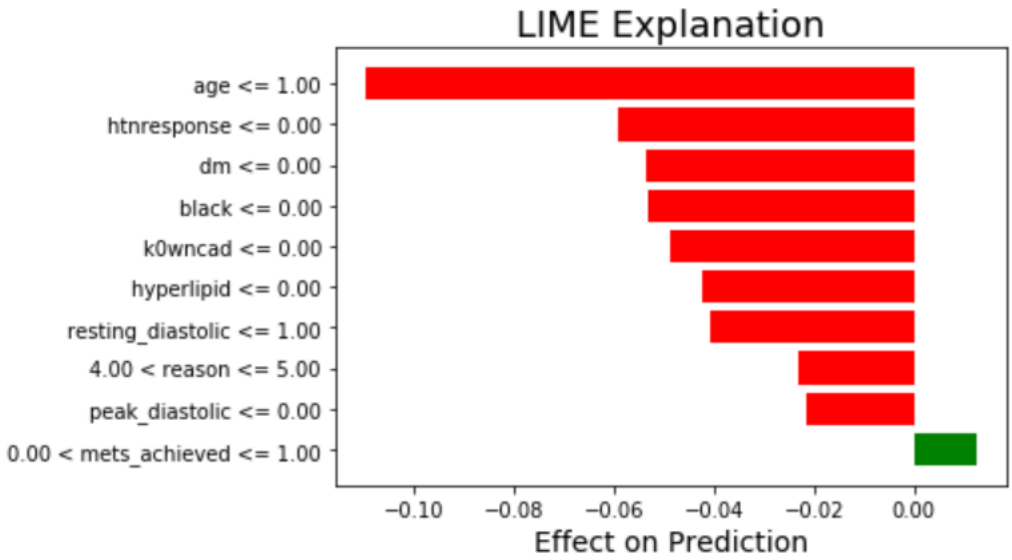



```
Anchor for the Instance:

resting_systolic = 1 AND
peak_diastolic = 0 AND
k0wncad = 0 AND
```

```
htnresponse = 0 AND
dm = 0 AND
black = 0 AND
aspirin = 0 AND
mets_achieved = 1 AND
resting_diastolic = 1 AND
percent_hr_achieved = 2 AND
reason = 2 AND
hyperlipid = 1 AND
age = 3

Precision: 1.00
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict **b'0'100.0%** of the time

```
Instance #5 being explained:

age                   0.0
mets_achieved         1.0
resting_systolic      1.0
resting_diastolic     1.0
peak_diastolic        0.0
reason                5.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            0.0
black                 0.0
percent_hr_achieved   1.0
```



Anchor for the Instance:

age = 0 AND
resting_systolic = 1 AND
htnresponse = 0 AND
hyperlipid = 0

Precision: 0.91
Coverage: 0.05

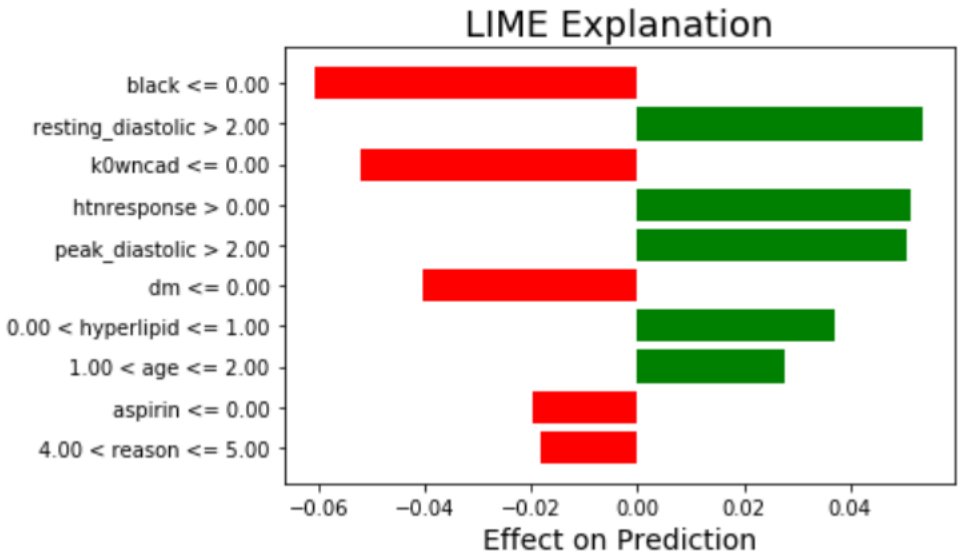
Test examples where the anchor applies:
Anchor test precision: 0.76
Anchor test coverage: 0.04

If ALL of these are true:
The A.I. will predict b'0' **90.7%** of the time

False Negative Anchors: 3rd Group

There are 79 FP instances in this group. We list first 5 samples from them.

```
Instance #1 being explained:

age                   2.0
mets_achieved         1.0
resting_systolic      1.0
resting_diastolic     3.0
peak_diastolic        3.0
reason                5.0
htnresponse           1.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            1.0
black                 0.0
percent_hr_achieved   2.0
```



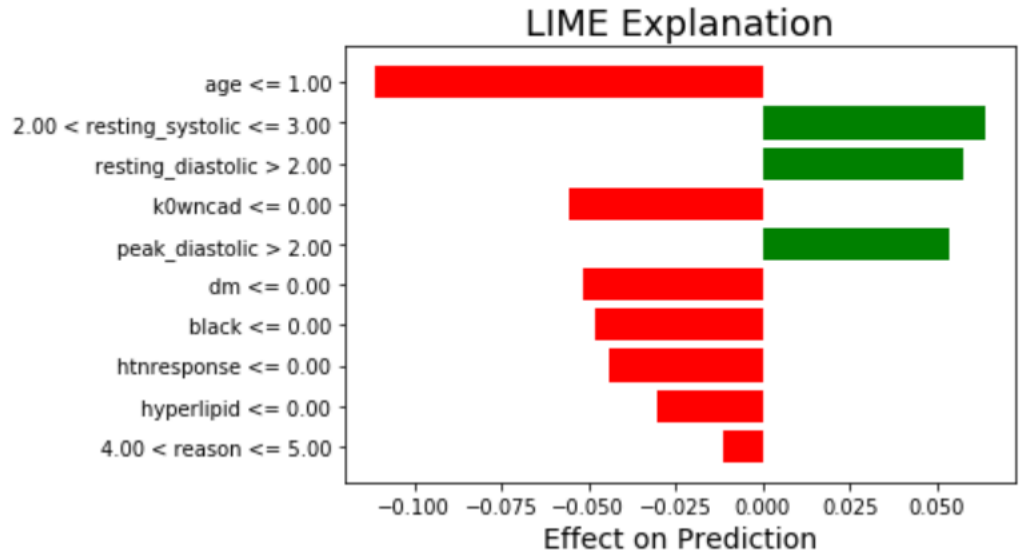

```
Anchor for the Instance:

resting_systolic = 1 AND
reason = 2 AND
black = 0 AND
percent_hr_achieved = 2 AND
age = 2 AND
mets_achieved = 1 AND
htnresponse = 1

Precision: 0.93
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
```

```
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict **b'0'92.7%** of the time

```
Instance #2 being explained:
```

```
age                   1.0
mets_achieved         1.0
resting_systolic      3.0
resting_diastolic     3.0
peak_diastolic        3.0
reason                5.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            0.0
black                 0.0
percent_hr_achieved   2.0
```



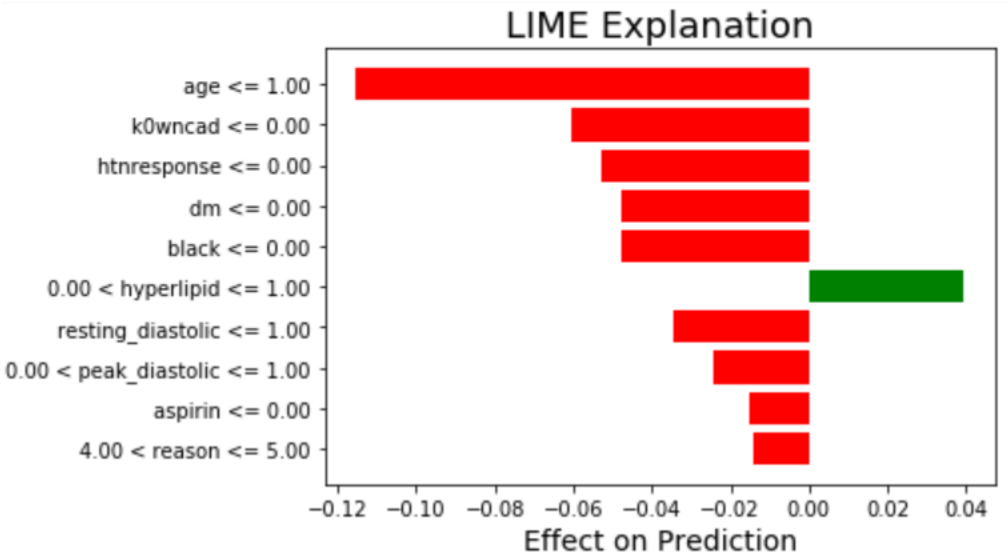

```
Anchor for the Instance:
```

```
age = 1 AND
htnresponse = 0 AND
percent_hr_achieved = 2 AND
hyperlipid = 0 AND
black = 0 AND
dm = 0 AND
aspirin = 0 AND
k0wncad = 0 AND
reason = 2 AND
resting_diastolic = 3 AND
mets_achieved = 1 AND
```

```
resting_systolic = 3
Precision: 1.00
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict **b'0'100.0%** of the time

```
Instance #3 being explained:

age                     0.0
mets_achieved           2.0
resting_systolic        1.0
resting_diastolic       1.0
peak_diastolic          1.0
reason                  5.0
htnresponse             0.0
k0wncad                 0.0
dm                      0.0
aspirin                 0.0
hyperlipid              1.0
black                   0.0
percent_hr_achieved     3.0
```

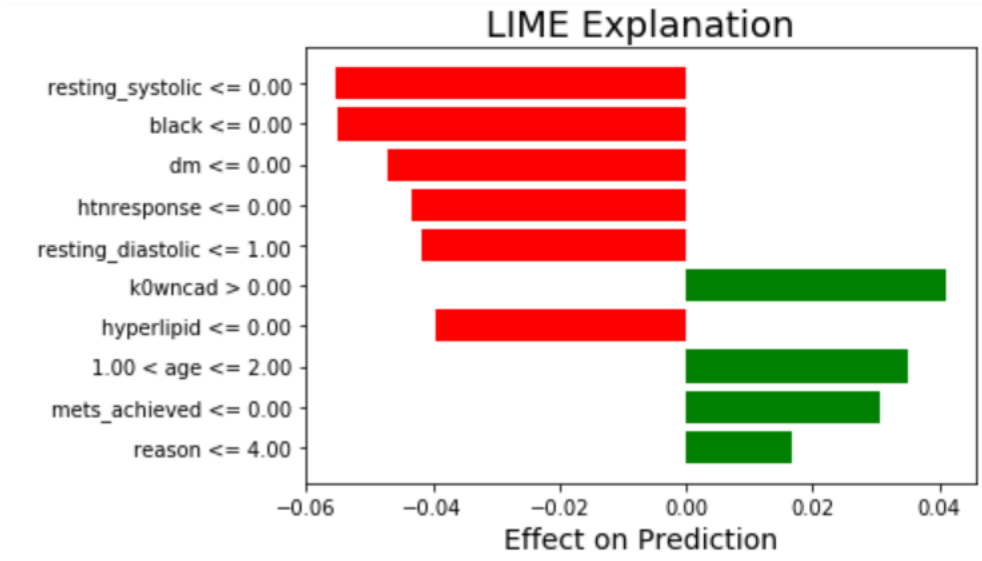



```
Anchor for the Instance:

age = 0 AND
resting_systolic = 1 AND
htnresponse = 0 AND
dm = 0 AND
reason = 2 AND
```

```
k0wncad = 0 AND
black = 0 AND
percent_hr_achieved = 3

Precision: 0.90
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict b'0' **90.4%** of the time

```
Instance #4 being explained:

age                   2.0
mets_achieved         0.0
resting_systolic      0.0
resting_diastolic     0.0
peak_diastolic        0.0
reason                4.0
htnresponse           0.0
k0wncad               1.0
dm                    0.0
aspirin               1.0
hyperlipid            0.0
black                 0.0
percent_hr_achieved   0.0
```

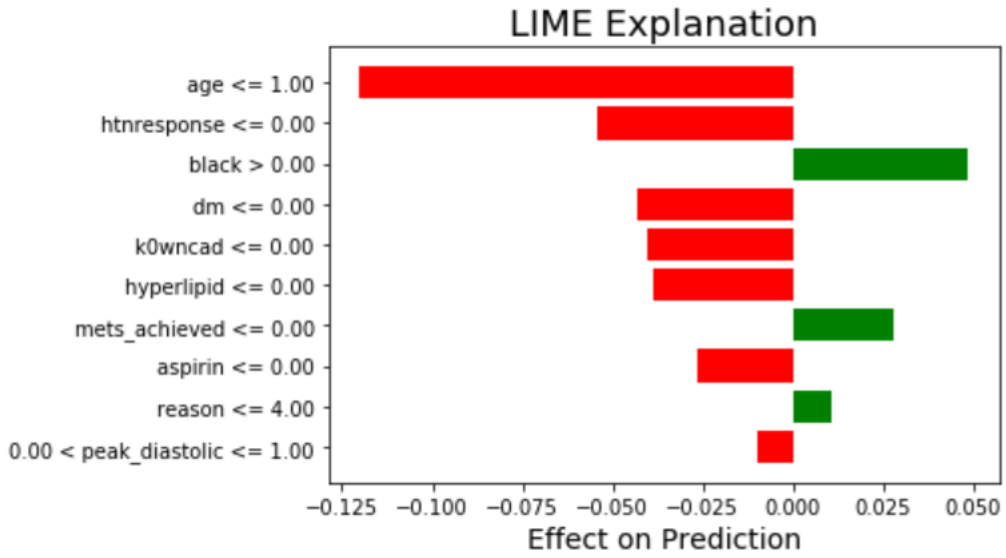



```
Anchor for the Instance:

resting_diastolic = 0 AND
resting_systolic = 0 AND
```

```
peak_diastolic = 0 AND
aspirin = 1 AND
age = 2

Precision: 0.93
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict **b'0'92.7%** of the time

```
Instance #5 being explained:

age                   1.0
mets_achieved         0.0
resting_systolic      2.0
resting_diastolic     2.0
peak_diastolic        1.0
reason                0.0
htnresponse           0.0
k0wncad               0.0
dm                    0.0
aspirin               0.0
hyperlipid            0.0
black                 1.0
percent_hr_achieved   2.0
```




```
Anchor for the Instance:

peak_diastolic = 1 AND
```

```
percent_hr_achieved = 2 AND
age = 1 AND
resting_systolic = 2 AND
htnresponse = 0 AND
hyperlipid = 0 AND
aspirin = 0

Precision: 0.92
Coverage: 0.00

Test examples where the anchor applies:
Anchor test precision: 1.00
Anchor test coverage: 0.00
```

If ALL of these are true:
The A.I. will predict **b'0'92.0%** of the time