```
LR
Average RMSE 10 fold cross validation : 11.485522
Average RMSE Leave one out : 7.966900
RMSE Vet : 7.503460
Average Coef
```

	Coef
PCV	8.168483
MCH	3.687929
MCV	3.566426
HGB	3.312788
Weight	3.261651
MCHC	2.377993
RBC	2.339999
SEGS	2.226335
LYMPH	1.510802
WBC	1.360952
PCV\ndonor	1.212036
PLT\n_____	1.020179
PROTEIN (REFRACT)	1.001266
PLATELETS	0.779197
RDW	0.346656
MONO	0.272426
Volume	0.201935

```
Average RMSE 10 fold cross validation : 9.149929
Average RMSE Leave one out : 6.083817
RMSE Vet : 7.503460
Average Coef
                         Coef
PCV                   7.926993
Weight                3.199606
MCV                   3.006236
HGB                   2.886763
MCH                   2.564269
RBC                   2.114734
SEGS                  1.901447
LYMPH                 1.401795
MCHC                  1.396335
WBC                   1.296875
PCV\ndonor            1.192260
PROTEIN (REFRACT)     0.905835
PLT\n_____           0.329561
Volume                0.229827


Average RMSE 10 fold cross validation : 7.733842
Average RMSE Leave one out : 5.678154
RMSE Vet : 7.503460
Average Coef
                 Coef
PCV           7.739972
MCH           5.252148
MCV           4.356633
SEGS          3.584049
MCHC          3.518407
HGB           3.037117
Weight        3.024763
LYMPH         2.735435
RBC           2.273305
WBC           1.392573
PCV\ndonor    1.263917
Volume        0.463040
```

```
Average RMSE 10 fold cross validation : 6.101989
Average RMSE Leave one out : 4.776738
RMSE Vet : 7.503460
Average Coef
                Coef
PCV            6.363499
Weight         3.699569
PCV\ndonor     1.076496
Volume         0.214145




SVR

test state SVR
Index(['Weight', 'PCV', 'PCV\ndonor', 'Volume', 'WBC',
'PLT\n_____',
        'PLATELETS', 'HGB', 'RBC', 'MCV', 'MCHC', 'MCH',
'SEGS', 'LYMPH',
        'MONO', 'PROTEIN (REFRACT)', 'RDW'],
      dtype='object')
Average SVR RMSE : 10.478592
RMSE Vet : 7.503460




XGboost
Average RMSE 10 fold cross validation Xg: 6.018278
Average Xg Leave one out : 5.134629
RMSE Vet : 7.503460
Index(['Weight', 'PCV', 'PCV\ndonor', 'Volume'],
dtype='object')




Average RMSE 10 fold cross validation Xg: 6.162467
Average Xg Leave one out : 5.555596
RMSE Vet : 7.503460
```

```
Index(['Weight', 'PCV', 'PCV\ndonor', 'Volume', 'WBC',
'PLT\n_____',
        'PLATELETS', 'HGB', 'RBC', 'MCV', 'MCHC', 'MCH',
'SEGS', 'LYMPH',
        'MONO', 'PROTEIN (REFRACT)', 'RDW'],
      dtype='object')
```

Ridge

```
train Ridge
test state Ridge
Index(['Weight', 'PCV', 'PCV\ndonor', 'Volume', 'WBC',
'PLT\n_____',
        'PLATELETS', 'HGB', 'RBC', 'MCV', 'MCHC', 'MCH',
'SEGS', 'LYMPH',
        'MONO', 'PROTEIN (REFRACT)', 'RDW'],
      dtype='object')
Average Ridge RMSE : 7.449860
RMSE Vet : 7.503460
Average Ridge Coef
                    Coef
PCV               6.727510
Weight            3.003443
MCV               2.156846
RBC               2.128509
MCHC              1.804604
HGB               1.710020
SEGS              1.303322
WBC               1.239114
PCV\ndonor        1.211126
LYMPH             1.014212
PLT\n_____       0.961971
PROTEIN (REFRACT) 0.929198
PLATELETS         0.852249
MCH               0.685985
Volume            0.321164
RDW               0.188481
MONO              0.133101
```

```
train Ridge
test state Ridge
Index(['Weight', 'PCV', 'PCV\ndonor', 'Volume'],
dtype='object')
Average Ridge RMSE : 4.735336
RMSE Vet : 7.503460
Average Ridge Coef
              Coef
PCV           6.292126
Weight        3.621565
PCV\ndonor    1.079719
Volume        0.186835


NN ['Weight', 'PCV', 'PCV\ndonor', 'Volume']

activation='relu' Average RMSE : 21.176700
activation='tanh' Average RMSE : 21.156367
```