Sample Code

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6/30/2020

The following warnings you see here are irrelevant and doesn't affect the output. You could ignore those for now

```
source("run_analysis.R")
```

```
## Loading required package: dplyr
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
simulation_analysis()
```

```
## Processing: datacheck()
```

```
## Downloading file... Please wait
```

```
## Date Downloaded: 2020-06-30 14:53:25
```

```
## Filename: Data.zip
```

```
## File downloaded successfully
```

```
## Processing: dataextract()
```

```
## Files extracted successfully
```

```
## Processing: mean_sd_find()
```

```
## The following variables were created: listnum, modfeature
```

```
## Processing: column_gsub()

## Processing: autobind()

## Train data loaded

## Test data loaded

## Tables combined successfully

## Processing: mean_sd_summary()

## Data set has been created

## Processing: activity_sub()

## Simulation finished
```

```
downloaddate
```

```
## [1] "2020-06-30 14:53:25 CST"
```

```
head(Dataset)
```

```
##   Subject Activity        V1          V2         V3         V4         V5
## 1       1  WALKING 0.2885845 -0.02029417 -0.1329051 -0.9952786 -0.9831106
## 2       1  WALKING 0.2784188 -0.01641057 -0.1235202 -0.9982453 -0.9753002
## 3       1  WALKING 0.2796531 -0.01946716 -0.1134617 -0.9953796 -0.9671870
## 4       1  WALKING 0.2791739 -0.02620065 -0.1232826 -0.9960915 -0.9834027
## 5       1  WALKING 0.2766288 -0.01656965 -0.1153619 -0.9981386 -0.9808173
## 6       1  WALKING 0.2771988 -0.01009785 -0.1051373 -0.9973350 -0.9904868
##           V6       V41        V42        V43        V44        V45        V46
## 1 -0.9135264 0.9633961 -0.1408397 0.11537494 -0.9852497 -0.9817084 -0.8776250
## 2 -0.9603220 0.9665611 -0.1415513 0.10937881 -0.9974113 -0.9894474 -0.9316387
## 3 -0.9789440 0.9668781 -0.1420098 0.10188392 -0.9995740 -0.9928658 -0.9929172
## 4 -0.9906751 0.9676152 -0.1439765 0.09985014 -0.9966456 -0.9813928 -0.9784764
## 5 -0.9904816 0.9682244 -0.1487502 0.09448590 -0.9984293 -0.9880982 -0.9787449
## 6 -0.9954200 0.9679482 -0.1482100 0.09190972 -0.9989793 -0.9867539 -0.9973064
##          V81         V82          V83        V84        V85        V86
## 1 0.07799634 0.005000803 -0.067830808 -0.9935191 -0.9883600 -0.9935750
## 2 0.07400671 0.005771104  0.029376633 -0.9955481 -0.9810636 -0.9918457
## 3 0.07363596 0.003104037 -0.009045631 -0.9907428 -0.9809556 -0.9896866
## 4 0.07732061 0.020057642 -0.009864772 -0.9926974 -0.9875527 -0.9934976
## 5 0.07344436 0.019121574  0.016779979 -0.9964202 -0.9883587 -0.9924549
## 6 0.07793244 0.018684046  0.009344434 -0.9948136 -0.9887145 -0.9922663
##           V121        V122       V123       V124       V125       V126
## 1 -0.006100849 -0.03136479 0.10772540 -0.9853103 -0.9766234 -0.9922053
## 2 -0.016111620 -0.08389378 0.10058429 -0.9831200 -0.9890458 -0.9891212
## 3 -0.031698294 -0.10233542 0.09612688 -0.9762921 -0.9935518 -0.9863787
## 4 -0.043409983 -0.09138618 0.08553770 -0.9913848 -0.9924073 -0.9875542
## 5 -0.033960416 -0.07470803 0.07739203 -0.9851836 -0.9923781 -0.9874019
```

```
## 6 -0.028775508 -0.07039311 0.07901214 -0.9851808 -0.9921175 -0.9830768
##          V161        V162        V163       V164       V165       V166
## 1 -0.09916740 -0.05551737 -0.06198580 -0.9921107 -0.9925193 -0.9920553
## 2 -0.11050283 -0.04481873 -0.05924282 -0.9898726 -0.9972926 -0.9938510
## 3 -0.10848567 -0.04241031 -0.05582883 -0.9884618 -0.9956321 -0.9915318
## 4 -0.09116989 -0.03633262 -0.06046466 -0.9911194 -0.9966410 -0.9933289
## 5 -0.09077010 -0.03763253 -0.05828932 -0.9913545 -0.9964730 -0.9945110
## 6 -0.09424758 -0.04335526 -0.04193600 -0.9916216 -0.9960147 -0.9930906
##         V201       V202       V214       V215       V227       V228       V240
## 1 -0.9594339 -0.9505515 -0.9594339 -0.9505515 -0.9933059 -0.9943364 -0.9689591
## 2 -0.9792892 -0.9760571 -0.9792892 -0.9760571 -0.9912535 -0.9916944 -0.9806831
## 3 -0.9837031 -0.9880196 -0.9837031 -0.9880196 -0.9885313 -0.9903969 -0.9763171
## 4 -0.9865418 -0.9864213 -0.9865418 -0.9864213 -0.9930780 -0.9933808 -0.9820599
## 5 -0.9928271 -0.9912754 -0.9928271 -0.9912754 -0.9934800 -0.9958537 -0.9852037
## 6 -0.9942950 -0.9952490 -0.9942950 -0.9952490 -0.9930177 -0.9954243 -0.9858944
##         V241       V253       V254       V266       V267       V268       V269
## 1 -0.9643352 -0.9942478 -0.9913676 -0.9947832 -0.9829841 -0.9392687 -0.9954217
## 2 -0.9837542 -0.9951232 -0.9961016 -0.9974507 -0.9768517 -0.9735227 -0.9986803
## 3 -0.9860515 -0.9934032 -0.9950910 -0.9935941 -0.9725115 -0.9833040 -0.9963128
## 4 -0.9873511 -0.9955022 -0.9952666 -0.9954906 -0.9835697 -0.9910798 -0.9963121
## 5 -0.9890626 -0.9958076 -0.9952580 -0.9972859 -0.9823010 -0.9883694 -0.9986065
## 6 -0.9864403 -0.9952748 -0.9952050 -0.9966567 -0.9869395 -0.9927386 -0.9976438
##         V270       V271       V294        V295        V296       V345
## 1 -0.9831330 -0.9061650 0.25248290  0.13183575 -0.05205025 -0.9923325
## 2 -0.9749298 -0.9554381 0.27130855  0.04286364 -0.01430976 -0.9950322
## 3 -0.9655059 -0.9770493 0.12453124 -0.06461056  0.08267692 -0.9909937
## 4 -0.9832444 -0.9902291 0.02904438  0.08030227  0.18569468 -0.9944466
## 5 -0.9801295 -0.9919150 0.18108977  0.05798789  0.55978632 -0.9962920
## 6 -0.9922637 -0.9970459 0.15738377  0.31883523  0.60559943 -0.9948507
##         V346       V347       V348       V349       V350       V373        V374
## 1 -0.9871699 -0.9896961 -0.9958207 -0.9909363 -0.9970517 0.87038451  0.21069700
## 2 -0.9813115 -0.9897398 -0.9966523 -0.9820839 -0.9926268 0.60851352 -0.05367561
## 3 -0.9816423 -0.9875663 -0.9912488 -0.9814148 -0.9904159 0.11543400 -0.19343634
## 4 -0.9887272 -0.9913542 -0.9913783 -0.9869269 -0.9943908 0.03579805 -0.09303585
## 5 -0.9887900 -0.9906244 -0.9969025 -0.9886067 -0.9929065 0.27335020  0.07913538
## 6 -0.9882443 -0.9901575 -0.9952180 -0.9901788 -0.9930667 0.32883589  0.05477140
##         V375       V424       V425       V426       V427       V428       V429
## 1 0.26370789 -0.9865744 -0.9817615 -0.9895148 -0.9850326 -0.9738861 -0.9940349
## 2 0.06314827 -0.9773867 -0.9925300 -0.9896058 -0.9849043 -0.9871681 -0.9897847
## 3 0.03825433 -0.9754332 -0.9937147 -0.9867557 -0.9766422 -0.9933990 -0.9873282
## 4 0.16809523 -0.9871096 -0.9936015 -0.9871913 -0.9928104 -0.9916460 -0.9886776
## 5 0.29238418 -0.9824465 -0.9929838 -0.9886664 -0.9859818 -0.9919558 -0.9879443
## 6 0.32094497 -0.9848902 -0.9927862 -0.9807784 -0.9852871 -0.9916595 -0.9853661
##          V452        V453        V454       V503       V504        V513
## 1 -0.25754888  0.09794711  0.54715105 -0.9521547 -0.9561340 -0.08843612
## 2 -0.04816744 -0.40160791 -0.06817833 -0.9808566 -0.9758658 -0.04414989
## 3 -0.21668507 -0.01726417 -0.11072029 -0.9877948 -0.9890155  0.25789914
## 4  0.21686246 -0.13524536 -0.04972798 -0.9875187 -0.9867420  0.07358150
## 5 -0.15334258 -0.08840273 -0.16223039 -0.9935909 -0.9900635  0.39431033
## 6 -0.36303968 -0.13323831  0.19483324 -0.9948360 -0.9952833  0.43796212
##         V516       V517      V526       V529       V530       V539       V542
## 1 -0.9937257 -0.9937550 0.3469885 -0.9801349 -0.9613094 -0.1289889 -0.9919904
## 2 -0.9903355 -0.9919603 0.5320605 -0.9882956 -0.9833219 -0.2719585 -0.9958539
## 3 -0.9892801 -0.9908667 0.6607950 -0.9892548 -0.9860277 -0.2127279 -0.9950305
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## 4 -0.9927689 -0.9916998 0.6789213 -0.9894128 -0.9878358 -0.0356842 -0.9952207
## 5 -0.9955228 -0.9943890 0.5590577 -0.9914330 -0.9890594 -0.2735820 -0.9950928
## 6 -0.9947329 -0.9951562 0.2469096 -0.9905000 -0.9858609 -0.2973291 -0.9951433
##         V543        V552
## 1 -0.9906975 -0.07432303
## 2 -0.9963995  0.15807454
## 3 -0.9951274  0.41450281
## 4 -0.9952369  0.40457253
## 5 -0.9954648  0.08775301
## 6 -0.9952387  0.01995331
```

```
head(Dataset_summary)
```

```
##   Subject Activity        V1          V2         V3         V4          V5
## 1       1  WALKING 0.2773308 -0.01738382 -0.1111481 -0.2837403  0.11446134
## 2       2  WALKING 0.2764266 -0.01859492 -0.1055004 -0.4236428 -0.07809125
## 3       3  WALKING 0.2755675 -0.01717678 -0.1126749 -0.3603567 -0.06991407
## 4       4  WALKING 0.2785820 -0.01483995 -0.1114031 -0.4408300 -0.07882674
## 5       5  WALKING 0.2778423 -0.01728503 -0.1077418 -0.2940985  0.07674840
## 6       6  WALKING 0.2836589 -0.01689542 -0.1103032 -0.2965387  0.16421388
##           V6       V41         V42          V43        V44        V45
## 1 -0.2600279 0.9352232 -0.28216502 -0.068102864 -0.9766096 -0.9713060
## 2 -0.4252575 0.9130173 -0.34660709  0.084727087 -0.9726932 -0.9721169
## 3 -0.3874120 0.9365067 -0.26198636 -0.138107866 -0.9777716 -0.9623556
## 4 -0.5862528 0.9639997 -0.08585403  0.127764113 -0.9838265 -0.9679632
## 5 -0.4570214 0.9726250 -0.10044029  0.002476236 -0.9793484 -0.9615855
## 6 -0.5043242 0.9580675 -0.21469485  0.033188883 -0.9777799 -0.9642486
##          V46        V81          V82           V83        V84          V85
## 1 -0.9477172 0.07404163  0.028272110 -4.168406e-03 -0.1136156  0.067002501
## 2 -0.9720728 0.06180807  0.018249268  7.895337e-03 -0.2775305 -0.016602236
## 3 -0.9520918 0.08147459  0.010059149 -5.622646e-03 -0.2686796 -0.044961959
## 4 -0.9629681 0.07835291  0.002956024 -7.676793e-04 -0.2970426 -0.221165132
## 5 -0.9645808 0.08458888 -0.016319410  8.321594e-05 -0.3028910 -0.091039743
## 6 -0.9572050 0.06995859 -0.016483172 -7.389312e-03 -0.1327848  0.008088974
##          V86        V121        V122       V123       V124        V125
## 1 -0.5026998 -0.04183096 -0.06953005 0.08494482 -0.4735355 -0.05460777
## 2 -0.5860904 -0.05302582 -0.04823823 0.08283366 -0.5615503 -0.53845367
## 3 -0.5294861 -0.02564052 -0.07791509 0.08134859 -0.5718696 -0.56379326
## 4 -0.7513914 -0.03179826 -0.07269053 0.08056772 -0.5009167 -0.66539409
## 5 -0.6128953 -0.04889199 -0.06901352 0.08154355 -0.4908775 -0.50462203
## 6 -0.5757775 -0.02550962 -0.07444625 0.08388088 -0.4460210 -0.33170227
##         V126        V161        V162        V163       V164       V165
## 1 -0.3442666 -0.08999754 -0.03984287 -0.04613093 -0.2074219 -0.3044685
## 2 -0.4810855 -0.08188334 -0.05382994 -0.05149392 -0.3895498 -0.6341404
## 3 -0.4766964 -0.09523982 -0.03878747 -0.05036161 -0.3859230 -0.6390880
## 4 -0.6626082 -0.11532156 -0.03934745 -0.05511669 -0.4923411 -0.8074199
## 5 -0.3187006 -0.08884084 -0.04495595 -0.04826796 -0.3576814 -0.5714381
## 6 -0.3831393 -0.08788911 -0.03623090 -0.05395973 -0.1826009 -0.4163902
##         V166       V201       V202       V214       V215       V227        V228
## 1 -0.4042555 -0.1369712 -0.2196886 -0.1369712 -0.2196886 -0.1414288 -0.07447175
## 2 -0.4354927 -0.2904076 -0.4225442 -0.2904076 -0.4225442 -0.2814242 -0.16415099
## 3 -0.5366641 -0.2546903 -0.3284289 -0.2546903 -0.3284289 -0.2800093 -0.13991636
## 4 -0.6404541 -0.3120506 -0.5276791 -0.3120506 -0.5276791 -0.3667009 -0.31691896
## 5 -0.1576825 -0.1583387 -0.3771787 -0.1583387 -0.3771787 -0.2883330 -0.28224228
```

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## 6 -0.1666844 -0.1668407 -0.2667342 -0.1668407 -0.2667342 -0.1951170 -0.07060296
##         V240       V241       V253       V254       V266         V267
## 1 -0.1609796 -0.1869784 -0.2987037 -0.3253249 -0.2027943  0.089712726
## 2 -0.4465491 -0.5530199 -0.5479120 -0.5577982 -0.3460482 -0.021904810
## 3 -0.4664118 -0.5615107 -0.5661352 -0.5673716 -0.3166140 -0.081302435
## 4 -0.4977922 -0.5531161 -0.6813040 -0.7301464 -0.4267194 -0.149399633
## 5 -0.3559331 -0.4921768 -0.4445325 -0.4891997 -0.2877826  0.009460378
## 6 -0.2812078 -0.3656029 -0.3212905 -0.3647083 -0.1879343  0.140781622
##         V268       V269        V270       V271       V294         V295
## 1 -0.3315601 -0.3191347  0.05604001 -0.2796868 -0.2075484  0.113093646
## 2 -0.4538064 -0.4576514 -0.16921969 -0.4552221 -0.1457955  0.198586467
## 3 -0.4123741 -0.3792768 -0.12403083 -0.4229985 -0.2466142  0.171743003
## 4 -0.6310055 -0.4472349 -0.10179945 -0.5941983 -0.1385916  0.012347734
## 5 -0.4902511 -0.2975174  0.04260268 -0.4830600 -0.3223820 -0.002040511
## 6 -0.4985202 -0.3452277  0.10169964 -0.5504746 -0.1968417  0.022073419
##          V296       V345        V346       V347       V348         V349
## 1  0.04972652 -0.1705470 -0.03522552 -0.4689992 -0.1335866  0.106739857
## 2  0.06889952 -0.3046153 -0.07876408 -0.5549567 -0.3143131 -0.015332952
## 3  0.07485366 -0.3046944 -0.14050859 -0.5141373 -0.2965966 -0.005614988
## 4 -0.07878926 -0.3588834 -0.27955339 -0.7289916 -0.2973261 -0.209900006
## 5  0.02473897 -0.3449548 -0.18105555 -0.5904966 -0.3213903 -0.054521360
## 6  0.18510704 -0.1509429 -0.07537423 -0.5414386 -0.1926947  0.031445068
##         V350        V373       V374       V375       V424       V425       V426
## 1 -0.5347134 -0.20926197 -0.3862371 -0.1855303 -0.3390322 -0.1030594 -0.2559409
## 2 -0.6158982 -0.07271016 -0.2635740 -0.2548464 -0.4297135 -0.5547721 -0.3966599
## 3 -0.5435291 -0.21604267 -0.2586680 -0.3469466 -0.4378458 -0.5615263 -0.4181262
## 4 -0.7723591 -0.13528039 -0.3858809 -0.3257375 -0.3733845 -0.6884601 -0.6013811
## 5 -0.6334300 -0.35937258 -0.5340498 -0.3441509 -0.3726687 -0.5139517 -0.2131270
## 6 -0.6086244 -0.17829518 -0.4663058 -0.1041294 -0.2396507 -0.3413784 -0.2035755
##         V427        V428       V429        V452        V453          V454
## 1 -0.5166919 -0.03350816 -0.4365622  0.01478450 -0.06577462  0.0007733216
## 2 -0.6040530 -0.53304695 -0.5598566  0.00727968 -0.04270093  0.1397521153
## 3 -0.6151214 -0.56888867 -0.5458964  0.03375969 -0.03798965 -0.0445079739
## 4 -0.5426468 -0.65465777 -0.7164585 -0.12715409 -0.27466564  0.1498515347
## 5 -0.5293928 -0.50268338 -0.4203671 -0.04586019 -0.01918601  0.1674578191
## 6 -0.5153239 -0.33200871 -0.5122092  0.09124097  0.04162675  0.3028749498
##         V503       V504      V513        V516        V517         V526
## 1 -0.1286235 -0.3980326 0.1906437 -0.05711940 -0.10349240  0.093822181
## 2 -0.3242894 -0.5771052 0.3932062 -0.16906435 -0.16409197  0.207500927
## 3 -0.2900315 -0.4563731 0.1134943 -0.18676452 -0.08985199 -0.117163983
## 4 -0.4508046 -0.6511726 0.3820964 -0.31858781 -0.32045870  0.111486485
## 5 -0.3049925 -0.5196369 0.1498525 -0.26948166 -0.30568538 -0.004972878
## 6 -0.2013866 -0.4216831 0.2000904 -0.05540142 -0.09649997 -0.009228846
##         V529       V530       V539       V542       V543       V552
## 1 -0.1992526 -0.3210180 0.26884437 -0.3193086 -0.3816019 0.19066345
## 2 -0.5307048 -0.6517928 0.30528383 -0.5832493 -0.5581046 0.12634461
## 3 -0.5697558 -0.6326433 0.18094646 -0.6077516 -0.5490870 0.04576230
## 4 -0.6092856 -0.5939372 0.06973012 -0.7243274 -0.7577681 0.26535537
## 5 -0.4842628 -0.5897415 0.25062061 -0.5480536 -0.4556653 0.05273301
## 6 -0.3296811 -0.5106483 0.29310961 -0.3665005 -0.4080789 0.10092473
```