1. Use the below given data set

DataSet

1. Predict the no of comments in next H hrs

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| --- |
| corrs = c(rep(0,6)) |
| best = c(rep(0,52)) |
| for( n in c(1:24,29:33,35:52) ){ |
| corrs[1] = cor(fb[,n]^3,fb[,53]) # cubic |
| corrs[2] = cor(fb[,n]^2,fb[,53]) # square |
| corrs[3] = cor(fb[,n],fb[,53]) # constant |
| corrs[4] = cor(sqrt(fb[,n]),fb[,53]) # square root |
| corrs[5] = cor(log(fb[,n]+1),fb[,53]) # log |
| corrs[6] = cor(1/(fb[,n]+1),fb[,53]) # reciprocal |
| best = c(rep(0,51)) |
| for( n in c(1:24,29:33,35:51) ){ |
| corrs[1] = cor(fb[,n]^3,fb[,52]) # cubic |
| corrs[2] = cor(fb[,n]^2,fb[,52]) # square |
| corrs[3] = cor(fb[,n],fb[,52]) # constant |
| corrs[4] = cor(sqrt(fb[,n]),fb[,52]) # square root |
| corrs[5] = cor(log(fb[,n]+1),fb[,52]) # log |
| corrs[6] = cor(1/(fb[,n]+1),fb[,52]) # reciprocal |
| cand = 0 |
| for( i in 1:6 ){ |
| if( abs(corrs[i]) > cand ){ |
| fb\_new[which(best %in% 6)] = 1 / (fb\_new[which(best %in% 6)] + 1) |
|  |
| # write to file |
| write.csv(fb\_new, "E:/facebook\_transformed.csv", row.names=F) |
| write.csv(fb\_new, "E:/Features\_Variant\_1\_transformed.csv", row.names=F) |

1. Use regression techniqul

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| --- |
| ,,tree\_1,10508.93,6.3,0.837,,Sun,0.012885 |
| ,,tree\_2,8815.51,7,0.81,,Length,0.092312 | |
| ,,tree\_3,8495.39,7.2,0.804,,, | |
| ,,tree\_con,10343.72387,6.3,0.838,,, | |
| ,,NN\_all,6534.32,7,0.817,,, | |
| ,,NN\_trans,5803,6.6,0.853,,, | |
| ,,NB\_all,26967.76,1.4,0.783,,, | |
| ,,NB\_1,17459.06,4.9,0.628,,, | |
| VarImp,,,,,,,, | |
| VarImp,,NB\_1,17459.06,4.9,0.628,,, | |
| 0,,,,,,,, | |
| 0,,,,,,,, | |
| 0.00410607,,,,,,,, | |

1. Report the training accuracy and test accuracy

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| --- | --- |
| def save(self, filename): | |
| state\_dict = copy.copy(self.network.state\_dict()) | |
| if self.parallel: | |
| network = self.network.module | |
| else: | |
| network = self.network | |
| state\_dict = copy.copy(network.state\_dict()) | |
| if 'fixed\_embedding' in state\_dict: | |
| state\_dict.pop('fixed\_embedding') | |
| params = { | |
| @@ -409,8 +413,12 @@ def save(self, filename): |
| logger.warning('WARN: Saving failed... continuing anyway.') | |
|  | |
| def checkpoint(self, filename, epoch): | |
| if self.parallel: | |
| network = self.network.module | |
| else: | |
| network = self.network | |
| params = { | |
| 'state\_dict': self.network.state\_dict(), | |
| 'state\_dict': network.state\_dict(), | |
| 'word\_dict': self.word\_dict, | |
| 'feature\_dict': self.feature\_dict, | |
| 'args': self.args, | |