

Task : Clustering based identification

Data: Date and time, OCHL, volume , open interest

Deciding Features (X):

- ☐ Normalization of position of the OHCL candle:
 - ☐ Find the moving mean of past n candles (close, open , $0.5(C+O)$)
 - ☐ (O, C, H, L) - moving mean
 - ☐ Vedika's idea.....
 - ☐ Moving mean
 - ☐ Gradients 1st, 2nd Of moving mean
 - ☐ Volume Their gradients
 - ☐ Differences between OHLC <> OHCL
 - ☐ Time of candle (hour + min)
 - ☐ Week day
 - ☐ Vedika's Idea.....
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- ☐ Clustering part: k-mean :
 - ☐ H-clustering
 - ☐ Latent space VAEs

Let's say we get k no of clusters

KPI: identify the clusters with better Y var.

Deciding the Y var. (close - open)

- ☐ Occurrence of Green/ Red in n future candles (categorical type)
 - How many time it is green and red, neutral
 - Also decide the green/red based on threshold
- ☐ Amount of change in the open and close - for n future candles (numerical)

Required a table:

- Cluster number - Y_cat - Y_num