Demand Prediction -> # of pickups. Task 1 - Breaking our NVC into regions Mini Batch K means points

Roth of 1 1 1 1 Inter region - 1-15 miles. 15 minutes

15 minutes

15 minutes Task 2 - for each region Time axis -> Pickup date time 15 minutes X yor each II min interval. total number of pickups. 8:03 pm 8:00 pm - 8:17 pm (hrouping - Region. (haze the freq (resampling) (ourt the # of pickups - no. of rows

(ourt the # of pickups - no. of rows Dataset -> Each row -> Each pickup. index Ryion total pickups Aug pickups --- <u>6-1</u> t - Max weightage 4-1 ~ W EWMA -> Arg pickups 1-2 - w2 1-3 € w[©] Exponentially de aying +-4 × W4 Dirived features -> lag features -> Mistorial data. t-1 , t-2 , t-3 , t-4 Day of week - Muye impact on pickup pattern Experiments - model Scleetian + MP $(LR) \rightarrow The Best arrong the group.$ &y. MAPE Pipeline - nata, lode, model - track

