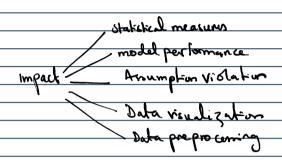
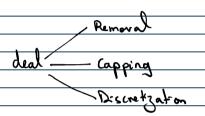


Flow: Defection - & Analyx Type - > Treatment







esday 14 May 2024 9:13 AM 1) Z-score - Normal or Normal like distributed feature Threshold: 4:30 D Lors of distribution - 2- score - Triming apping 2) IQR/Boxplot Threshold: Q1-15 IQR Q3+15 IQR - Trimming Capping - out liers may 6+11 be present based on rew luder 3) Isdahar Forest [Hultwarink outlier Likelien] [unexpersive & He Atap] [Amonty Shelien] - D Band on Decision Trees [Extra Trees] Random april NO LOGE outiers: less # g cub to separate - the last mode boated near not node se higher chance of being an autien Anomaly score top → Multiple trees -> sampling -> Random aplits - overy data pit - + score - a anomaly score to Ask each tree whether it has the particular delegist present on Ask Or which level that date point is present at La Average (devels) & the brigher probability of outliers Deach tree has verying depth Lo NOT a good measure (NOT standardized) S(x,n) = 2 the aboutine measure of how deep we would expect to go in a line of J 4 KNN [NO combon class for author delection] - 0 Kmarge neighbor distance to each point of more chance of being entired Local vs Global Dutliers La worlt be able find these - No when of Donaty only works with Abillule historica 5) Local outlier Factor [LOF] outliers -> relative density to https://www.sciencedirect.com/topics/computer-science/local-outlier-face inters _ " " 4 https://www.researchgate.net/publication/355858197

A hybrid machine learning method for increasing the performance of ne twork intrusion detection systems#pf7 -> LOF is based on releative https://towardsdatascience.com/local-outlier-factor-for-anomaly-detect 1 Best explaination 107(1) → let 4=3 → 1 € - Calc LRD of point of commo 8 it's to remost neighbors. Lat point of concern I is to relighbor be set A. calc LRO for 1,2,384 For each element in set A calculate Reachability distance of the classed with ANC [ED (1,1), PD(1,1), PO(1,4) each of its own & manest reighbors Average the value & take it inverse - LED of each element ero of part of interest LAD (4) = [NO [41,5), PO(45), EO(4,7)] LOF (1) = AVG [LED (2), LED(3), LED(4)] LES (1) b) DBSCAN