Unsupervised ML: 1M beginning impo When you have only features, you have to decide what you want to do with data. UnsupervisedML Clustering Dimensionality Mnomaly for Association Rule learning clustering: We use it to create groups of our data. (E.g-KNN) to illadimene foi nality intedia: 4 par When we have very high no of features dimensions, then we use dimensionality red" methods to remove reduce combine columns such that we can reduce dimensione, hence inclearing speed and getting better sisults. E.g PCA (Principal Component Analysis) iii) Anomaly Detection: We identify anomalies in The dodg. We can train our model on expected results/inpute and identify if oth goes wrong. (E.g - Fraud, stock price ele.) Association Ruk Learning: We use ada to identify association between two or more items. (E.g - Apriori, frequent Pattur)

Semi-supervised MI: 101 Labelling is a costly process, Hence, this method allows us to compine dabels for similar data lE. q → Grougle pholos (tag one picture & find all others) 4 J. Mpszivisqueni princed stuff Reinforcement Militarianomia grinstail No target data is provided. The agent (ML model) is free to explore and learner from experience. I correct decision is made reward else punishment is given. [Eig - Saff driving car on chees bot ] use have very high not of feature simensionality red" mathade to war beging appealing appeal and 12. 8.9 PCA (Principal Component malysis) (ii) Apomaly Detection: en of the plat of sileman you si the con expected records there and ideality is the green coreage ( 6.4 m hand, such police old Association Rule learning: