· Integration lem - Both methods ca be tose u. For instance, unsupervise learning can & uncover patterns or group data, rechich labeled for supervised learning. ex Practice cases: · A conservation organization has diployed comeras in a wildlife reserve. - n -> supervised learning (because the data is already labeled) - classification (less the goal is to identify different animal species) · A music streaming service . ~ " - unsupervised learning (the data isn't baleeled - clustering (categorizing songs into different genres using audio features of the tracks) - A marketing firm, n-n

- westward learning (unfateled data)

- association (discovering the writes a that

govern these emerging trends in order to label them): · A manufacturing perm u-u a lot of additional information already exists, therefore it could be considered labeled) > xagersion clasification categorize data into pass or fail) · A tech company is developing a language translation tool . . - n station tool . _ n supervised learning (labeled data -> corpus) -> classification (categorising words anground as verles, nouns, etc., grammar rules, ...) Basics of model building o Define the problem - understand the the problem - set objectives 2) Collect and Prepare data - Bota collection -> scraping welesites, querying databases, using Apis, etc. - Sata cleaning - handling missing values, led removing duplicates, fexing errors. - Sata preprocessing - convert data into resable