\* Encoding Categorical Data: (Ordinal Encoding) "Encoding cortegorical Data means converting categories (text /dbels/woods) into numbers so that machine learning algo. can understand and use them. > Apola dataset ma kai-kai features string /text ma hoy che Gaise ke "Color", "City", "Grender"). Computer ance mL models ne text samajhatu nathi, tene number format joie Types of Encoding:-(1) Label Encodings- (Nominal) "Fach category is assigned a unique number." > Eg: - Color = { Red, Green, Blue 3. Red > 0, Chreen > 1, Blue +2 => Pro: - Simple to use: Problem: - Model may assume order/priority bet? numbers (like 2 > 1 > 0), even if no real order This transformer should be used to encode target values, i.e.y, (2) One - Flot Encoding: - (Nominal) and not input x. Each Category is converted into a new column with binary values (0 or 1). > Eg: Color = & Red, Green, Blue 3 Red > \$[1,0,0], Green > [0,1,0], Blue [0,0,1] -> Pro: - No false order Problem. -) Con: - Increases the no. of columns. (high dimensional data)

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(3)	Ordinal Encoding:- "Categories are replaced with numbers based on their ranklorder.  Eg:- Size - & Small, Medium, Large 3 Small > 1, Medium > 2, Large > 3.
-	Cons: - Should only be used when data has a nortural order.

Teacher's Signature:\_\_