Exercise 1 Vasilev Vladimir

I used mushrooms dataset for classification:

* cap-shape: bell=b,conical=c,convex=x,flat=f, knobbed=k,sunken=s
* cap-surface: fibrous=f,grooves=g,scaly=y,smooth=s
* cap-color: brown=n,buff=b,cinnamon=c,gray=g,green=r,pink=p,purple=u,red=e,white=w,yellow=y
* bruises: bruises=t,no=f
* odor: almond=a,anise=l,creosote=c,fishy=y,foul=f,musty=m,none=n,pungent=p,spicy=s
* gill-attachment: attached=a,descending=d,free=f,notched=n
* gill-spacing: close=c,crowded=w,distant=d
* gill-size: broad=b,narrow=n
* gill-color: black=k,brown=n,buff=b,chocolate=h,gray=g, green=r,orange=o,pink=p,purple=u,red=e,white=w,yellow=y
* stalk-shape: enlarging=e,tapering=t
* stalk-root: bulbous=b,club=c,cup=u,equal=e,rhizomorphs=z,rooted=r,missing=?
* stalk-surface-above-ring: fibrous=f,scaly=y,silky=k,smooth=s
* stalk-surface-below-ring: fibrous=f,scaly=y,silky=k,smooth=s
* stalk-color-above-ring: brown=n,buff=b,cinnamon=c,gray=g,orange=o,pink=p,red=e,white=w,yellow=y
* stalk-color-below-ring: brown=n,buff=b,cinnamon=c,gray=g,orange=o,pink=p,red=e,white=w,yellow=y
* veil-type: partial=p,universal=u
* veil-color: brown=n,orange=o,white=w,yellow=y
* ring-number: none=n,one=o,two=t
* ring-type: cobwebby=c,evanescent=e,flaring=f,large=l,none=n,pendant=p,sheathing=s,zone=z
* spore-print-color: black=k,brown=n,buff=b,chocolate=h,green=r,orange=o,purple=u,white=w,yellow=y
* population: abundant=a,clustered=c,numerous=n,scattered=s,several=v,solitary=y
* habitat: grasses=g,leaves=l,meadows=m,paths=p,urban=u,waste=w,woods=d

my only concern is that there is no numeric data only categories

<https://www.kaggle.com/datasets/uciml/mushroom-classification>

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this is the link to it, lets try

as in notebook, its obvious it worked but I concern that output without mistakes, I usually do everything wrong. Thats it for first model for now, will test another one with same dataset perhaps.

Let see if I will put every explanation for all models of first exercise here or in other document.