

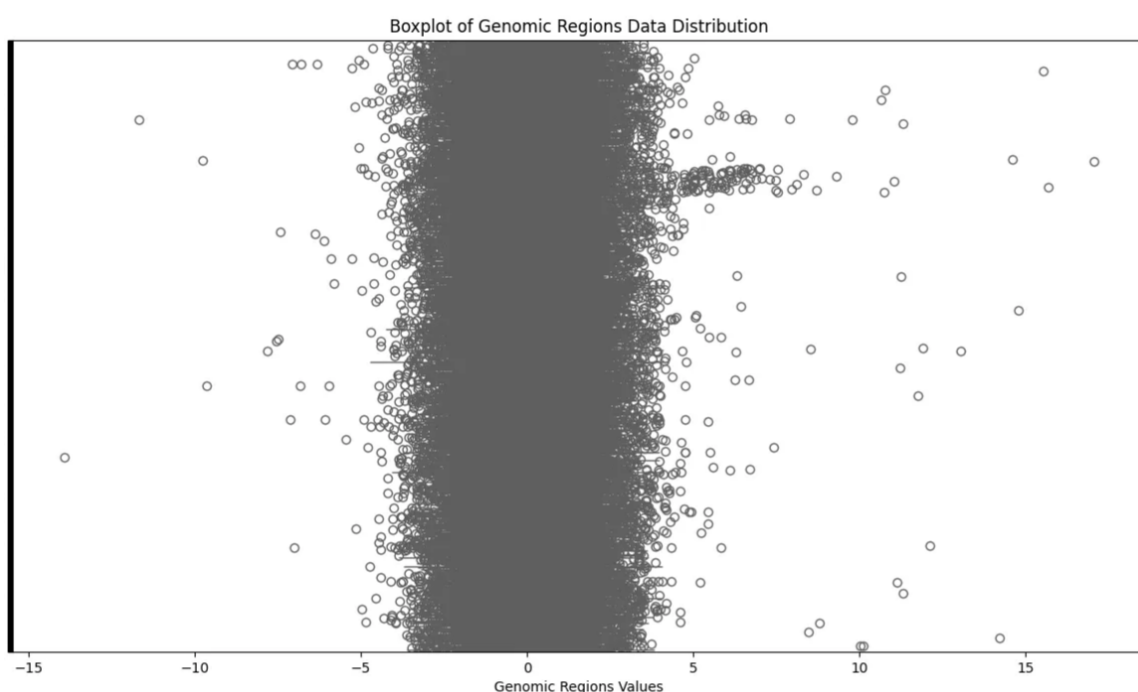


BoxPlot of dataset

Assignee	⑤ Sun Savannah
Status	Done
Due	@2024年5月26日
Project	🔴 <u>BDD-Cancer detection</u>
Priority	Medium
Tags	Data Analysis Visualization

Visualization of the dataset

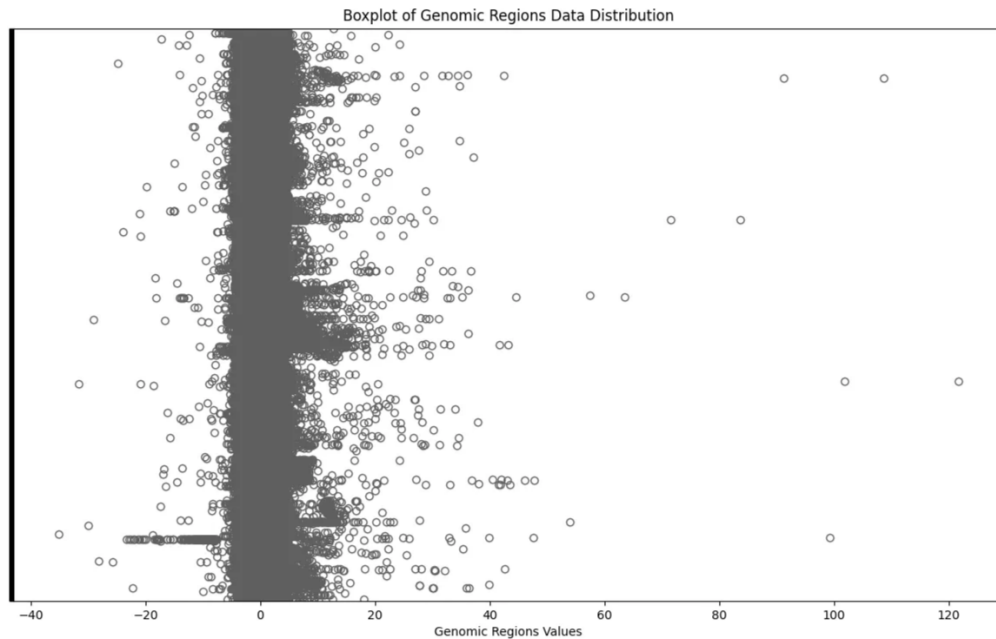
- X - concentration of CG after normalization
- Y - features (different part on chromosome)
- Figure 1: Boxplot of all the samples that are NOT having cancer (Negative samples)



There are less extreme value in this class.

Max: about 15, Min: about -14

- Figure 2: Boxplot of all the samples that are having cancer (Positive samples)



A lot of extreme values from -40 to 120

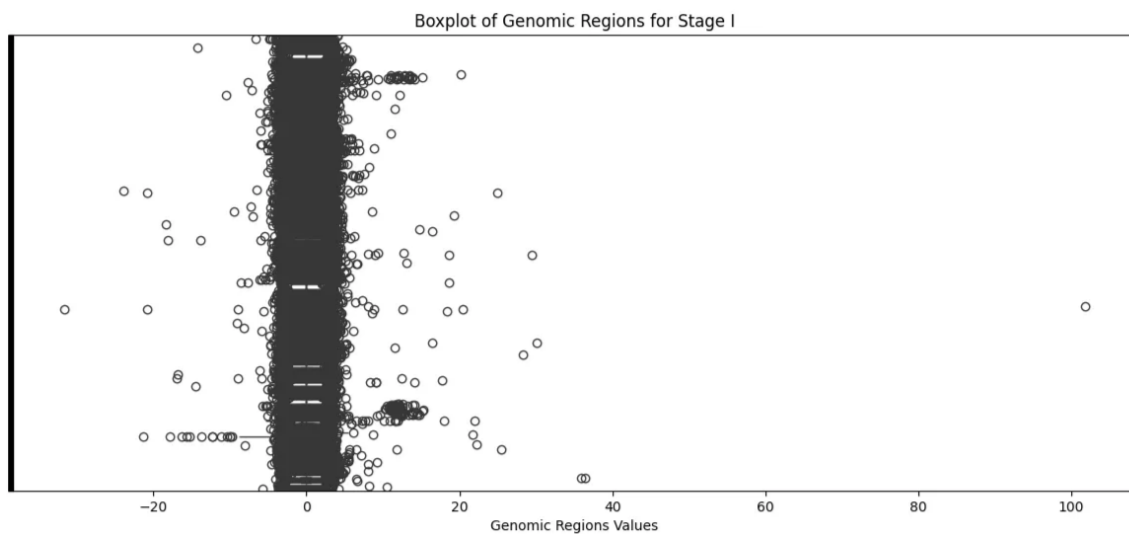
- Question: What is the meaning of extreme data?
- Significant Features or Bad Samples

Stage Analysis

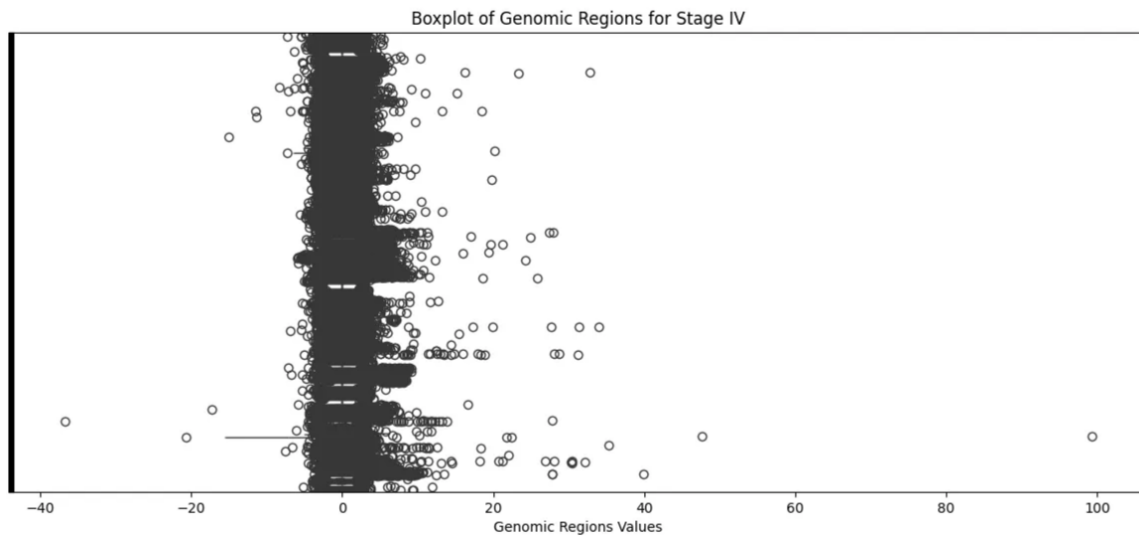
Stage	
Normal	642
IIB	262
IIA	123
IV	102
IIIC	75
IIIA	65
IIIB	64
IA	60

IB	55
III	41
I	34
II	25
IVA	19
IA2	9
IA3	9
IVB	8
IIC	7
IC	6
Not given	4
IIIA1	3
IIIA2	2
0	2
0__TisN0M0	2
biopsy only at time of blood draw	2
NaN	1
pT3N2Mx	1
IA1	1
IIIV	1
IIIIA	1
0__TisN0M0	1
0__Tis(2)N0M0	1

- Stage I



- Stage IV



Stage IV CG's concentration is much larger than stage I.