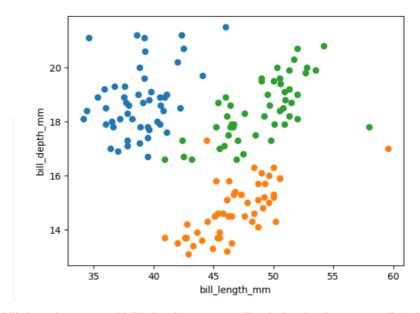
Team ID: CS_H21

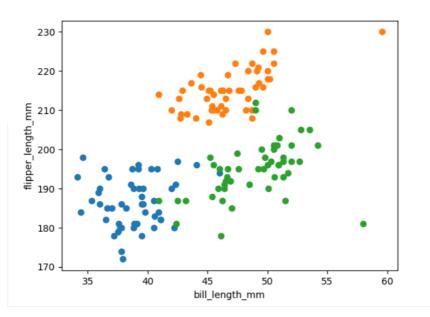
Team Members:

| IDS | Names |
|-------------|------------------------|
| 20191700109 | اسلام عصام عبد العاطي |
| 20191700062 | احمد محمد توفيق |
| 20191700085 | ادهم على احمد |
| 20191700141 | امیره یاسر محمد عطیه |
| 20191700159 | ايمان منصور عبد الحليم |

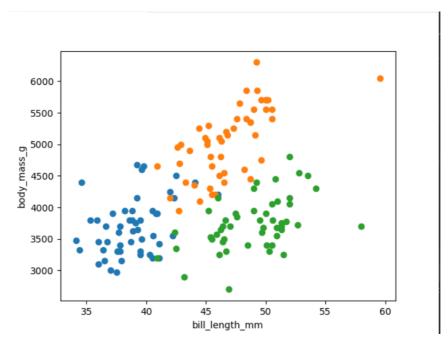
The visualization of dataset:



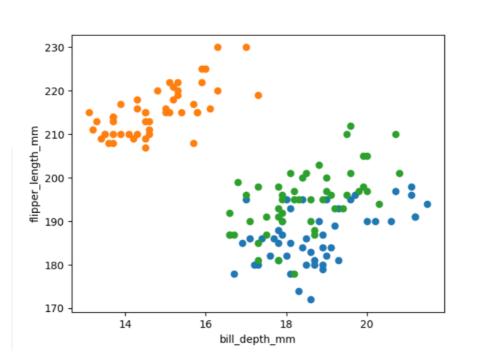
bill_length_mm and bill_depth_mm are discriminative between all 3 classes.



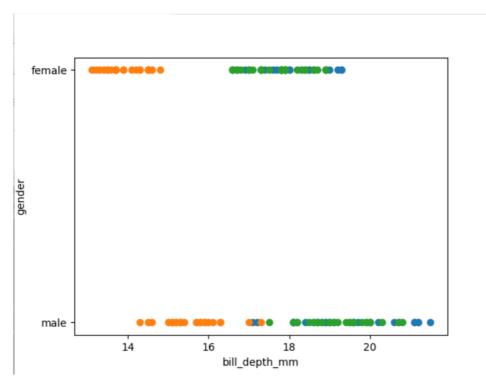
bill_length_mm and flipper_length_mm are discriminative between all 3 classes.



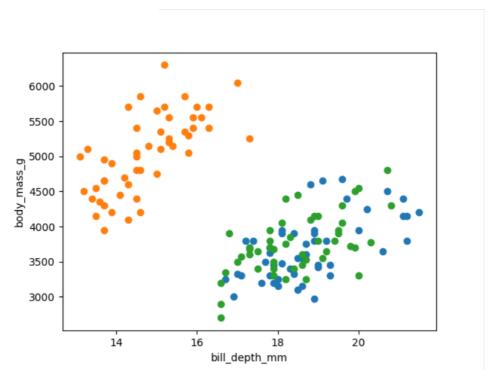
bill_length_mm and body_mass_g are discriminative between Chinstrap and Adelie or Chinstrap and Gentoo.



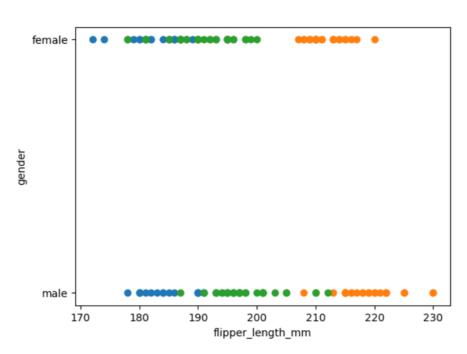
bill_depth_mm and flipper_length_mm are discriminative between Gentoo and Adelie or Gentoo and Chinstrap.



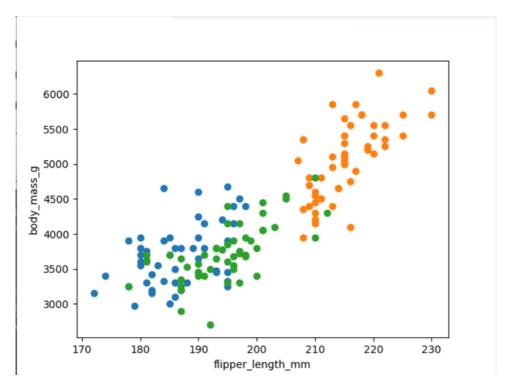
bill_depth_mm and gender are discriminative between Gentoo and Adelie or Gentoo and Chinstrap.



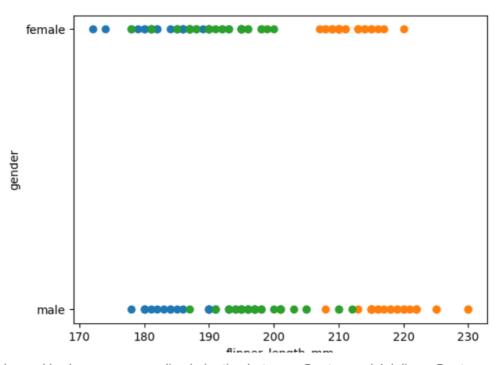
bill_depth_mm and body_mass_g are discriminative between Gentoo and Adelie or Gentoo and Chinstrap.



flipper_length_mm and gender are discriminative between Gentoo and Adelie or Gentoo and Chinstrap.

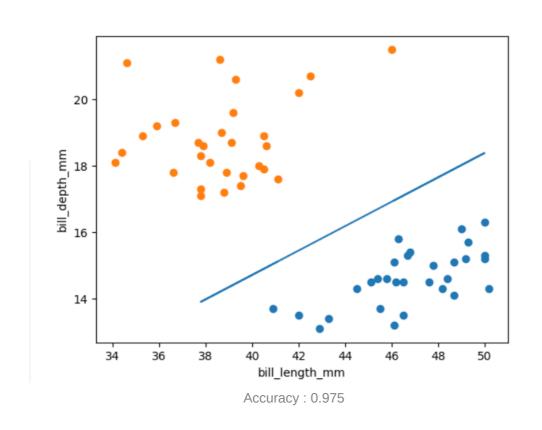


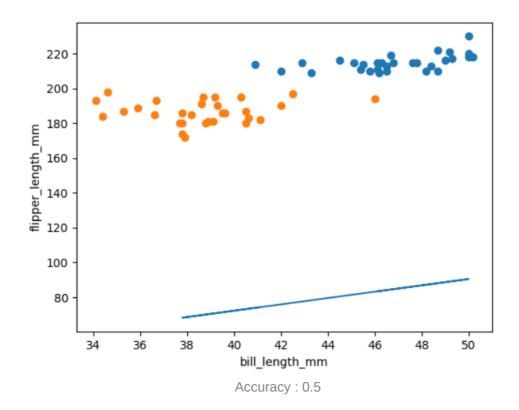
flipper_length_mm and body_mass_g are discriminative between Gentoo and Adelie or Gentoo and Chinstrap.

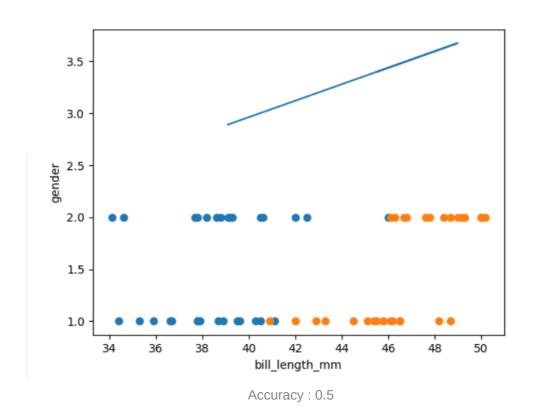


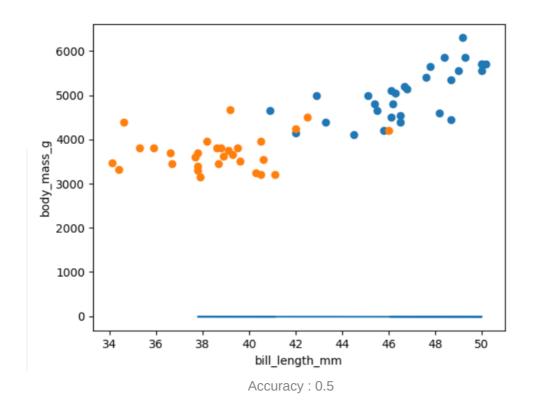
gender and body_mass_g are discriminative between Gentoo and Adelie or Gentoo and Chinstrap.

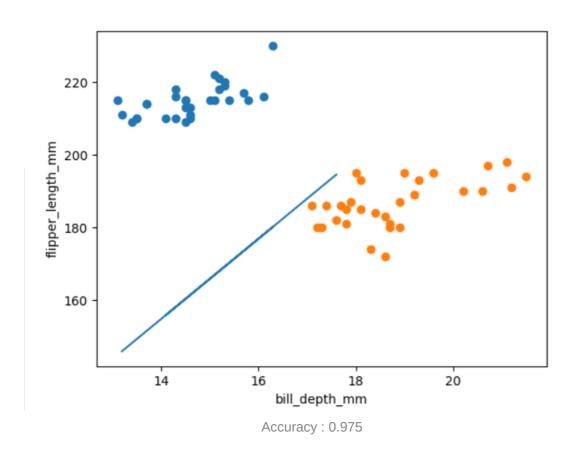
Training With Adelie And Gentoo:

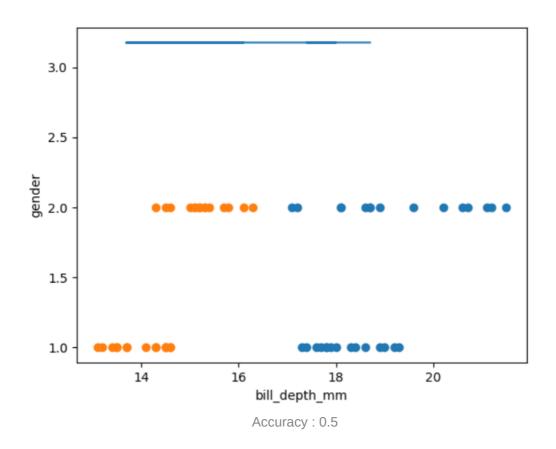


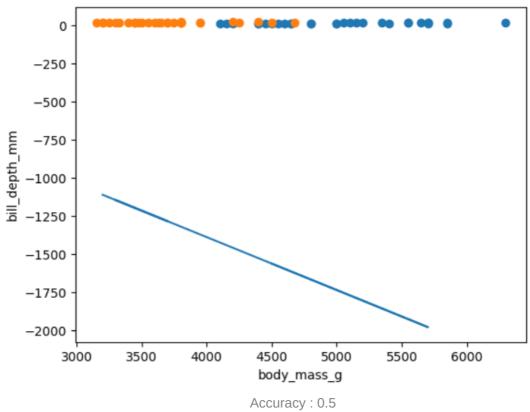


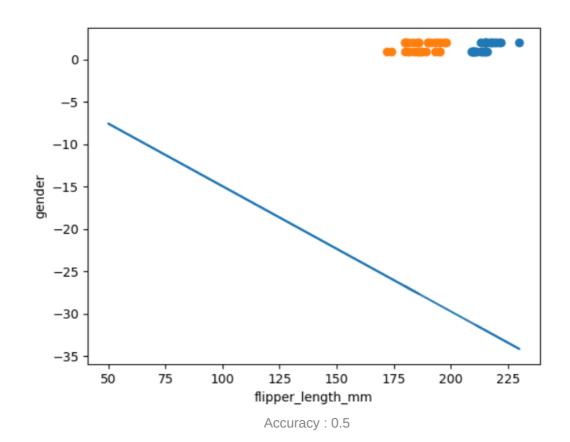


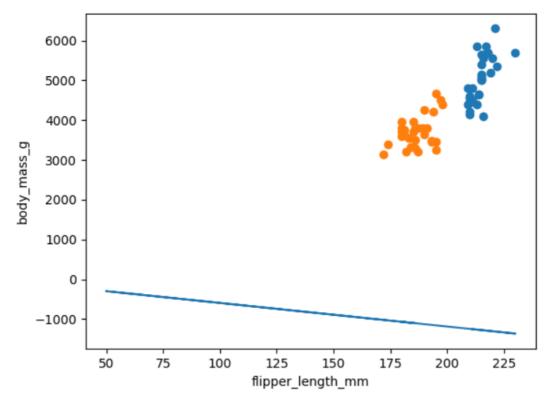




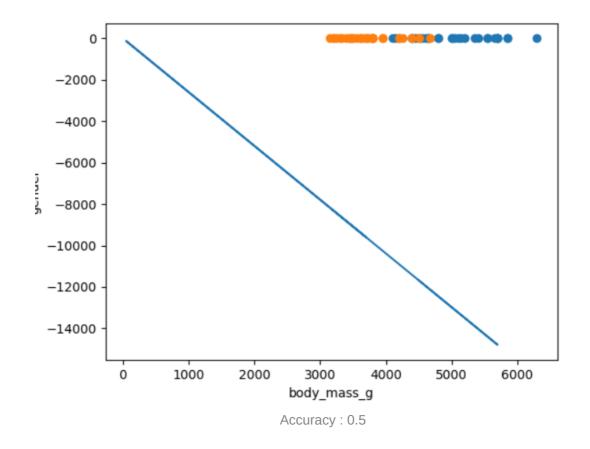




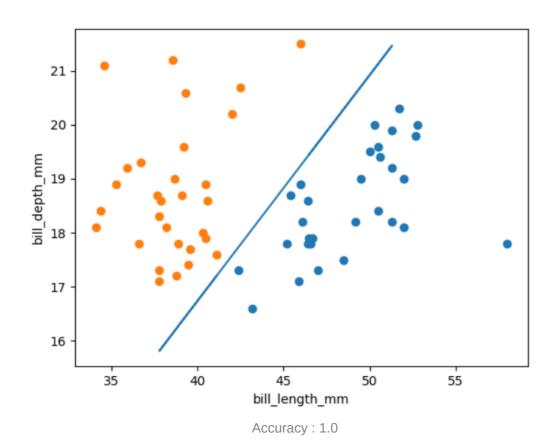


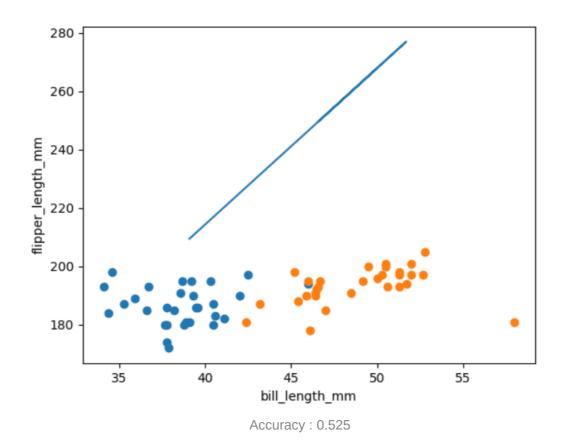


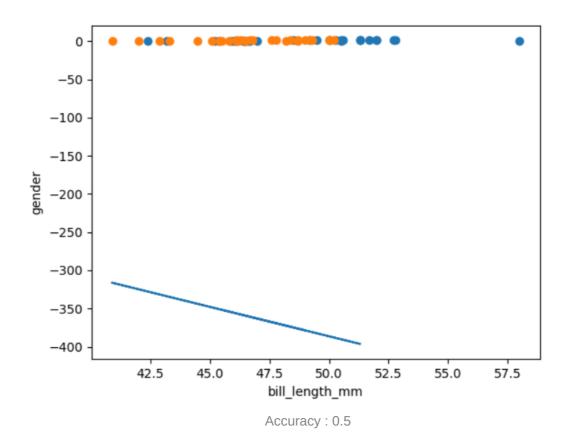
Accuracy: 0.5

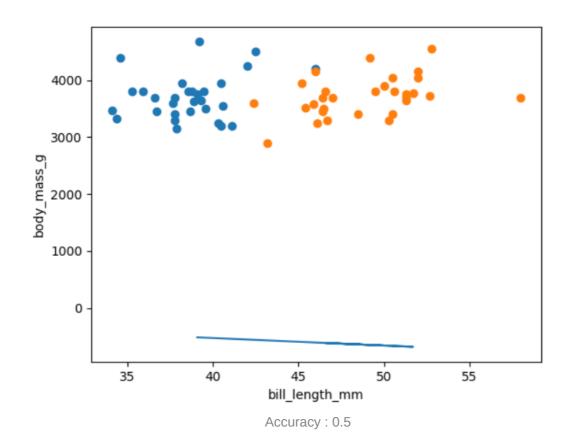


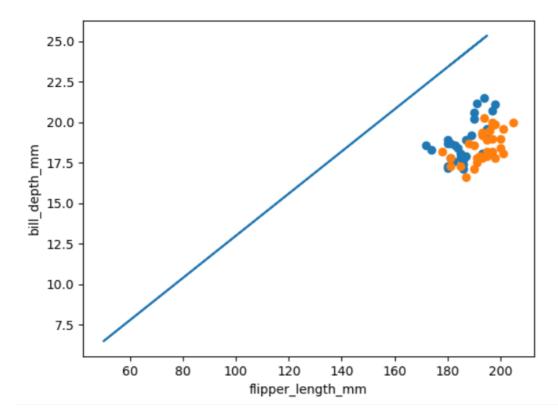
Training With Adelie And Chinstrap:



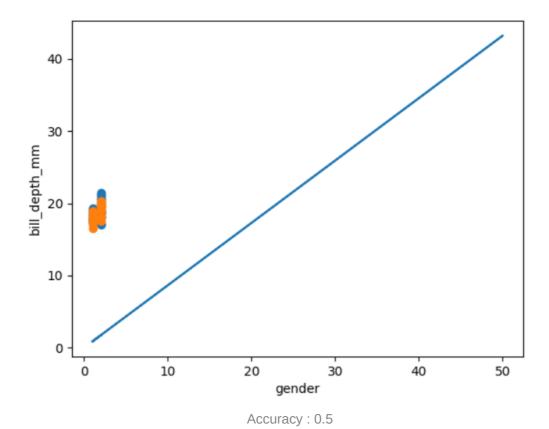


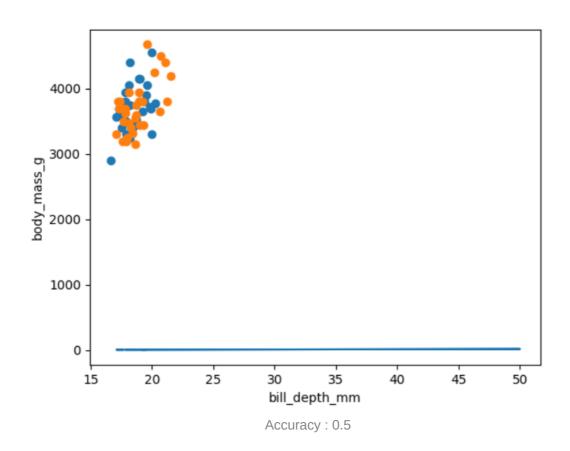


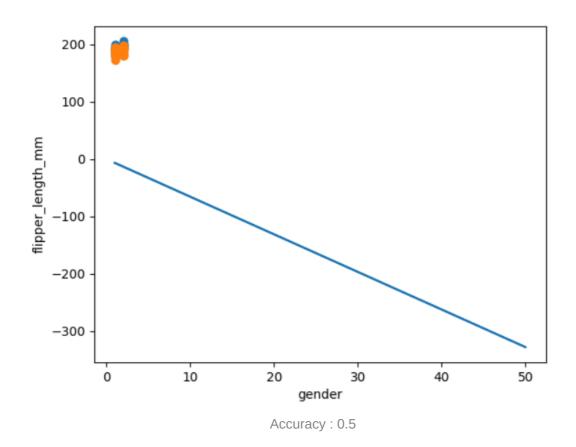


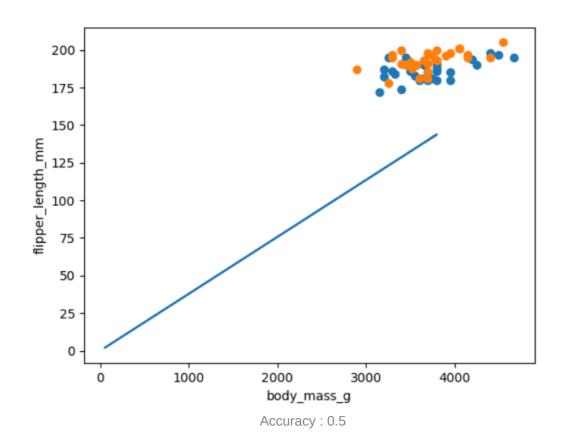


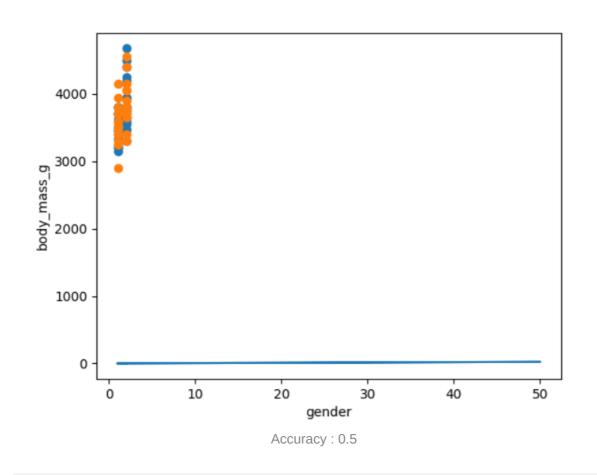
Accuracy: 0.5



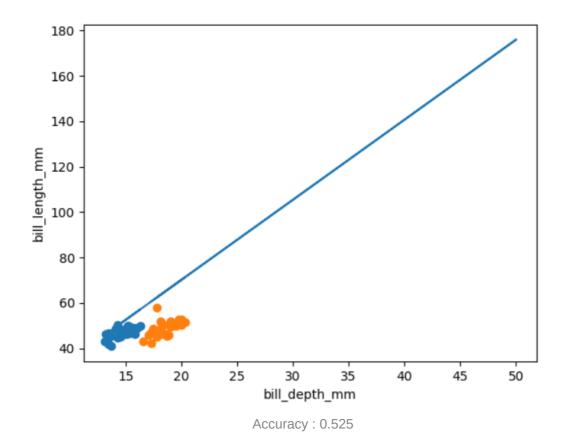


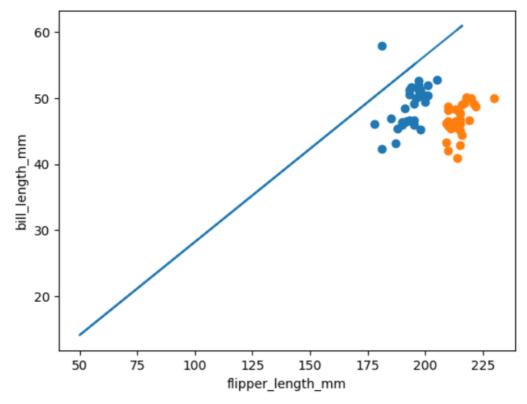




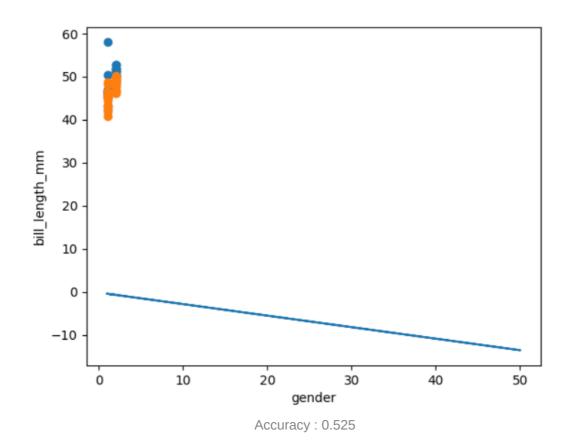


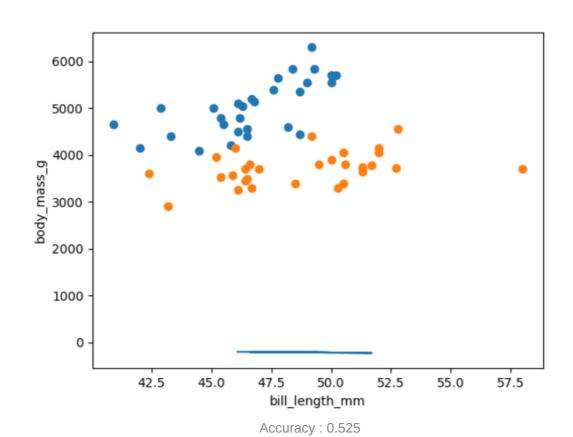
Training With Chinstrap And Gentoo:

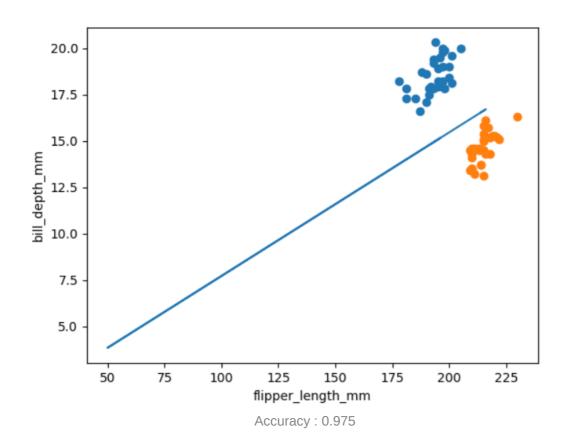


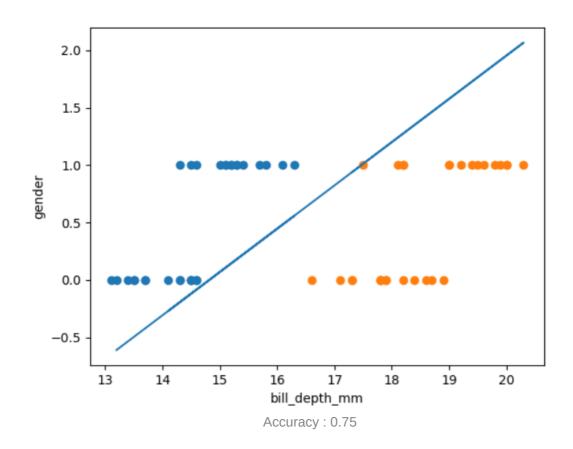


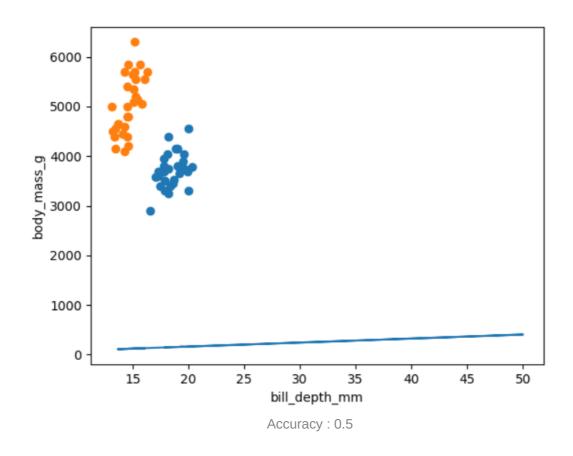
Accuracy: 0.525

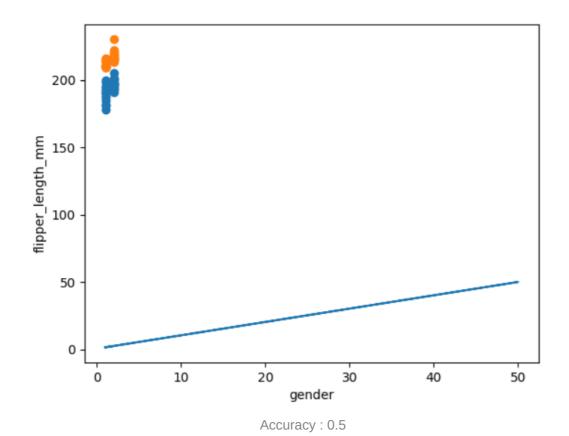


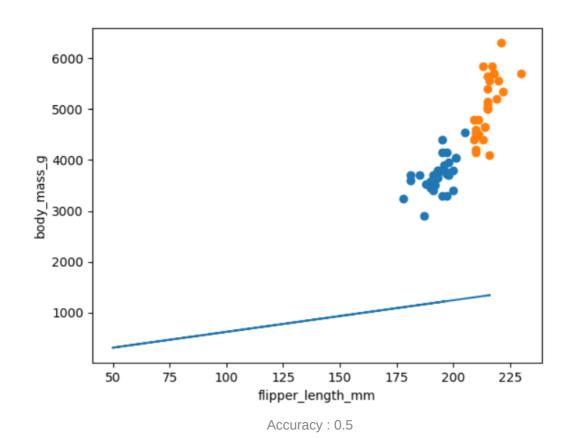


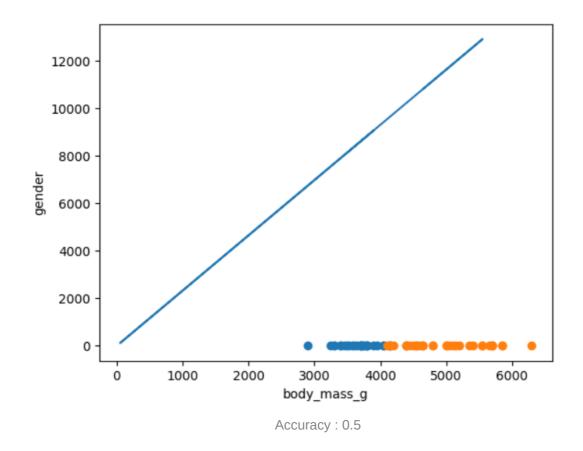












Best 2 Features To Train Adelie With Gentoo : bill_length_mm with bill_depth_mm and flipper_length_mm with bill_depth_mm.

Best 2 features To Train Chinstrap And Gentoo: flipper length mm with bill depth mm.

Best 2 features To Adelie And Chinstrap : bill_length_mm with bill_depth_mm.

While Training With Adelie And Chinstrap Features bill_length_mm with bill_depth_mm made the highest Accuracy = 1.