# Penguins!

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We aim to explore the characteristics and distribution of penguin species in using data analysis and visualization techniques.





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## Project Objective

- Understand difference between penguin species
- Identify Relationship between body measurements
- Explore variations across different islands



### 02- Contet of data

#### **Data overview**

species

"Adelie", "Chinstrap", "Gentoo"

island

island where the penguin was found: (Torgensen, Dream, Biscoe)

Culmen depth Culmen length Flipper length Bill depth , length (beak )

Length of the flipper (wing)

Body mass

coments

Body weigth





# Data Cleaning & Preprocessing

notebook





### Visuals & Insights

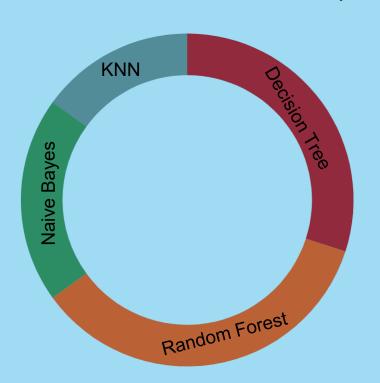




## Predictions, results



### prediction



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**Predict species:** 

- Decision Tree Accuracy: 0.986
- Random Forest Accuracy: 0.986
  - Naive Bayes Accuracy: 0.971
    - KNN Accuracy: 0.783
      Predict sex
    - Random Forest Classifier -Accuracy: 0.884

# Thank you