

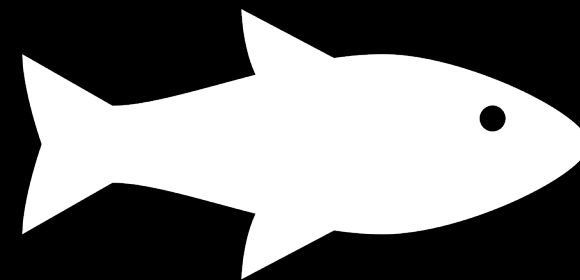


# CAS KAGGLE

FISH MARKET

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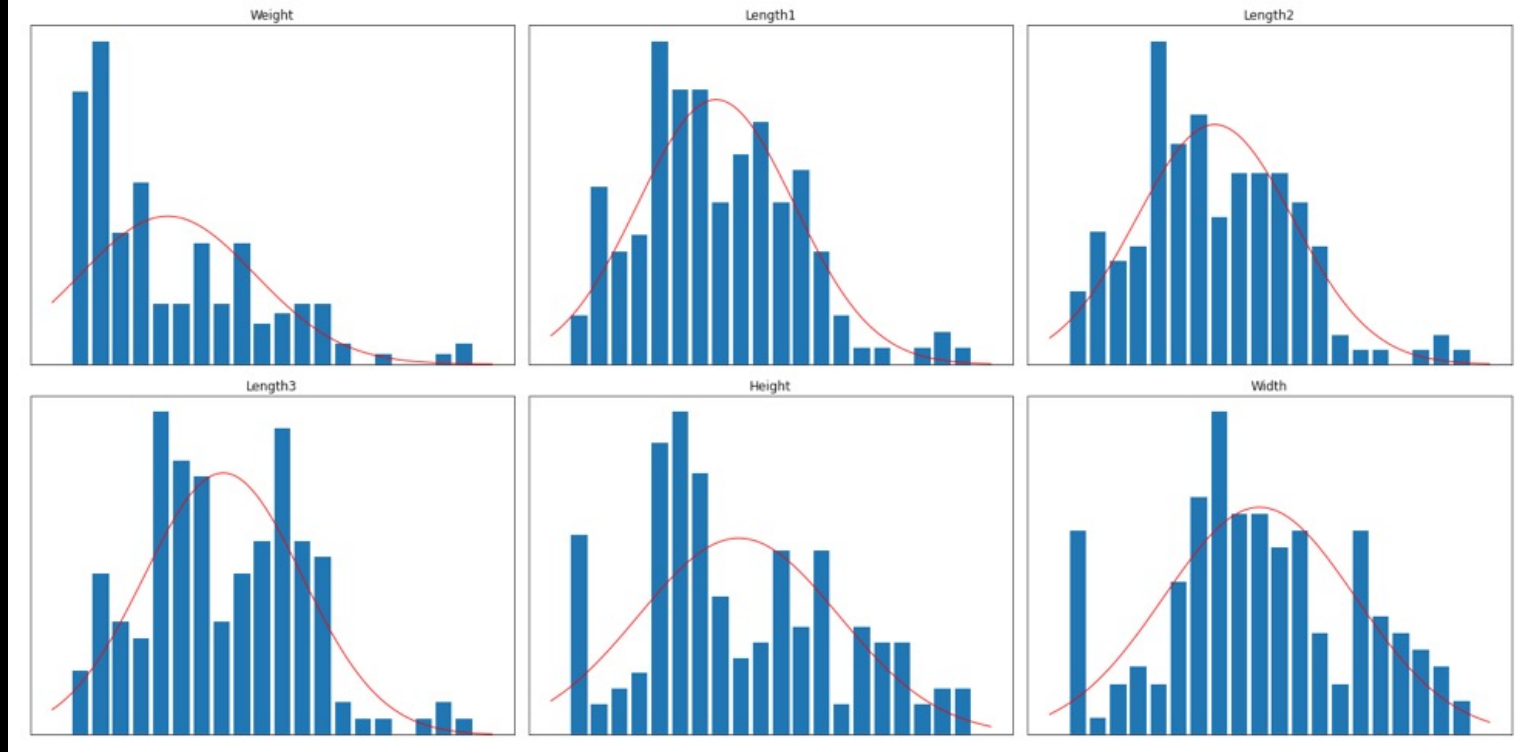
# INTRODUCCIÓ I OBJECTIU



Millorar el Dataset

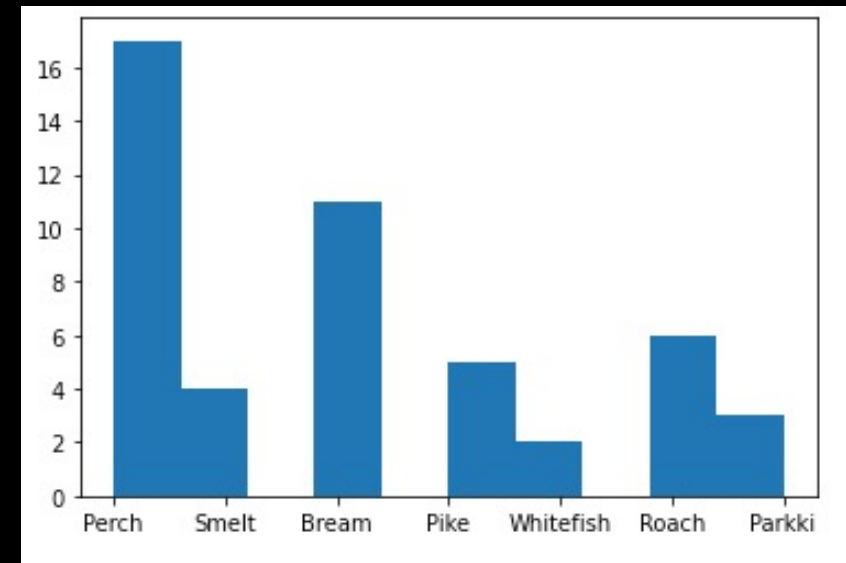
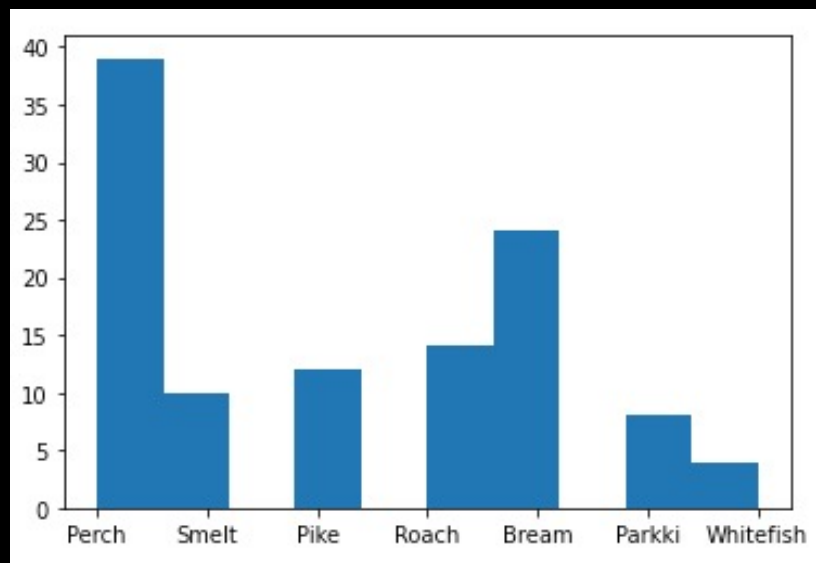
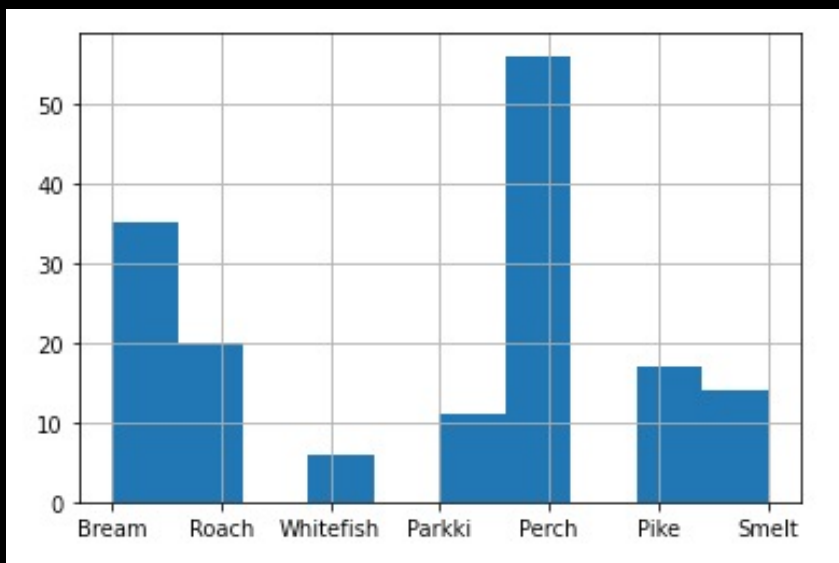


Predir una variable



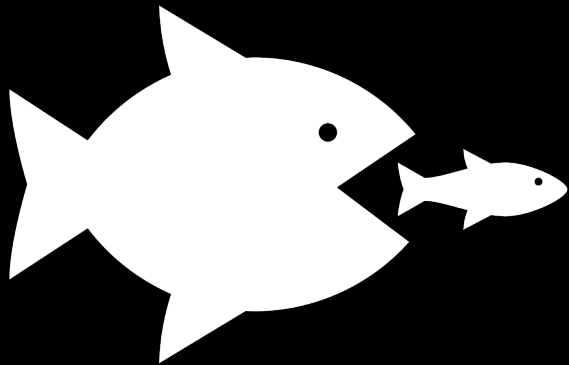
# TRACTAMENT DE LES DADES: Com és el Dataset?

- Variables
  - Weight
  - Length1
  - Length2
  - Length3
  - Height
  - Width
- Tractament dels NaNs



# ENTRENANT EL MODEL

- Repartiment de les dades



## ENTRENANT EL MODEL

### Mesures aplicades

- One vs One
- One vs Rest

# MODELS

1

- Regressió Logística
- One vs Rest

2

- Pesos

3

- Doble classificació (Other fishes)

4

- Eliminem Whitefish

# MODELS

	precision	recall	f1-score	support
Bream	1.00	1.00	1.00	11
Parkki	1.00	1.00	1.00	3
Perch	0.80	0.94	0.86	17
Pike	1.00	0.60	0.75	5
Roach	0.67	0.67	0.67	6
Smelt	0.80	1.00	0.89	4
Whitefish	0.00	0.00	0.00	2
accuracy			0.85	48
macro avg	0.75	0.74	0.74	48
weighted avg	0.83	0.85	0.83	48

MODEL 1: - Accuracy train: 96.3%  
- Accuracy test: 85.4%

	precision	recall	f1-score	support
Bream	1.00	0.91	0.95	11
Parkki	1.00	1.00	1.00	3
Perch	1.00	0.94	0.97	17
Pike	1.00	0.40	0.57	5
Roach	0.50	0.67	0.57	6
Smelt	0.80	1.00	0.89	4
Whitefish	0.50	1.00	0.67	2
accuracy			0.85	48
macro avg	0.83	0.85	0.80	48
weighted avg	0.90	0.85	0.86	48

MODEL 2: - Accuracy train: 100%  
- Accuracy test: 85.41%

	precision	recall	f1-score	support
Bream	1.00	0.91	0.95	11
Parkki	0.75	1.00	0.86	3
Perch	1.00	0.94	0.97	17
Pike	1.00	0.80	0.89	5
Roach	0.75	0.50	0.60	6
Smelt	0.80	1.00	0.89	4
Whitefish	0.40	1.00	0.57	2
accuracy			0.88	48
macro avg	0.81	0.88	0.82	48
weighted avg	0.91	0.88	0.88	48

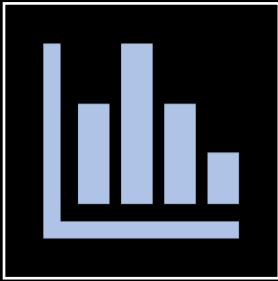
MODEL 3: - Accuracy train: 98.18%  
- Accuracy test: 87.5%

	precision	recall	f1-score	support
Bream	1.00	0.91	0.95	11
Parkki	1.00	1.00	1.00	3
Perch	0.89	0.94	0.91	17
Pike	1.00	0.40	0.57	5
Roach	0.50	0.67	0.57	6
Smelt	0.80	1.00	0.89	4
accuracy			0.85	46
macro avg	0.86	0.82	0.82	46
weighted avg	0.88	0.85	0.84	46

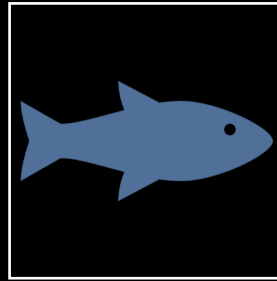
MODEL 4: - Accuracy train: 100%  
- Accuracy test: 84.78%



# CONCLUSIONS



Millor model: Model 3



Dataset amb poques  
dades



Overfitting?