

Exploring Bird Bone Metrics and Ecological Traits

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Columns

Feml & Femw

Length of Femur (mm) &
Diameter of Femur (mm)

Tibl & Tibw

Length of Tibiotarsus
(mm) & Diameter of
Tibiotarsus (mm)

Ulnal & Ulnw

Length of Ulna (mm) &
Diameter of Ulna (mm)

Tarl

Length of
Tarsometatarsus (mm)

Huml & Humw

Length of Humerus (mm)
& Diameter of Humerus
(mm)

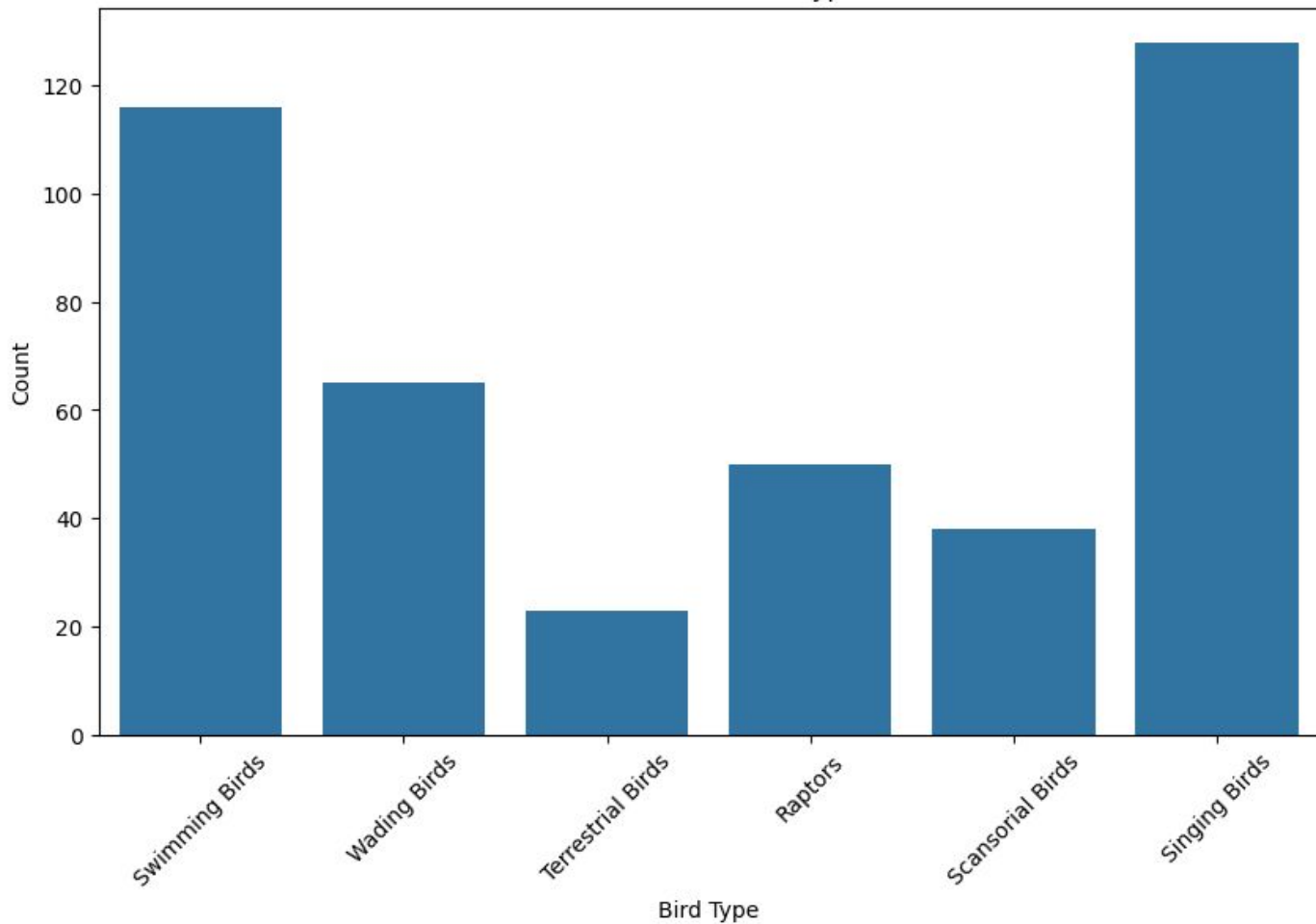
ID

Sequential id

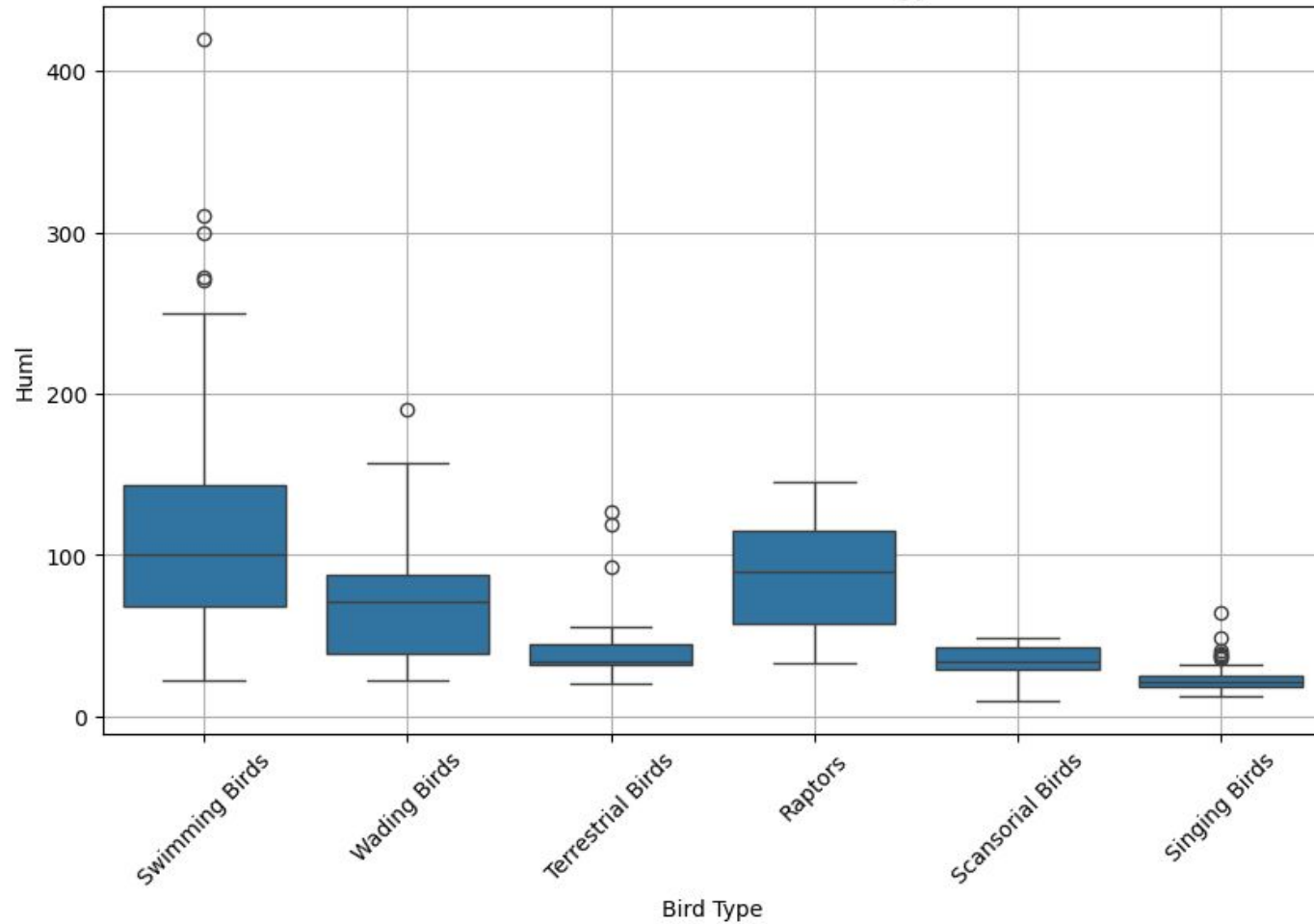


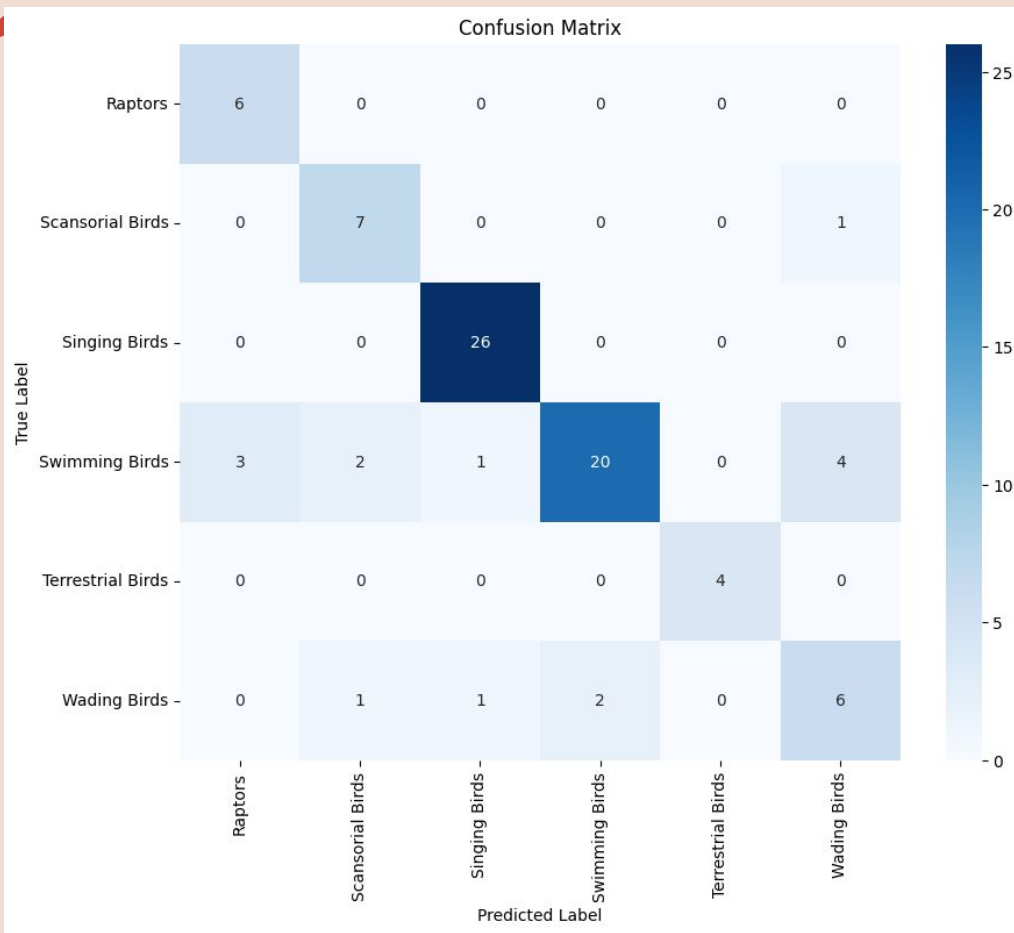


Distribution of Bird Types



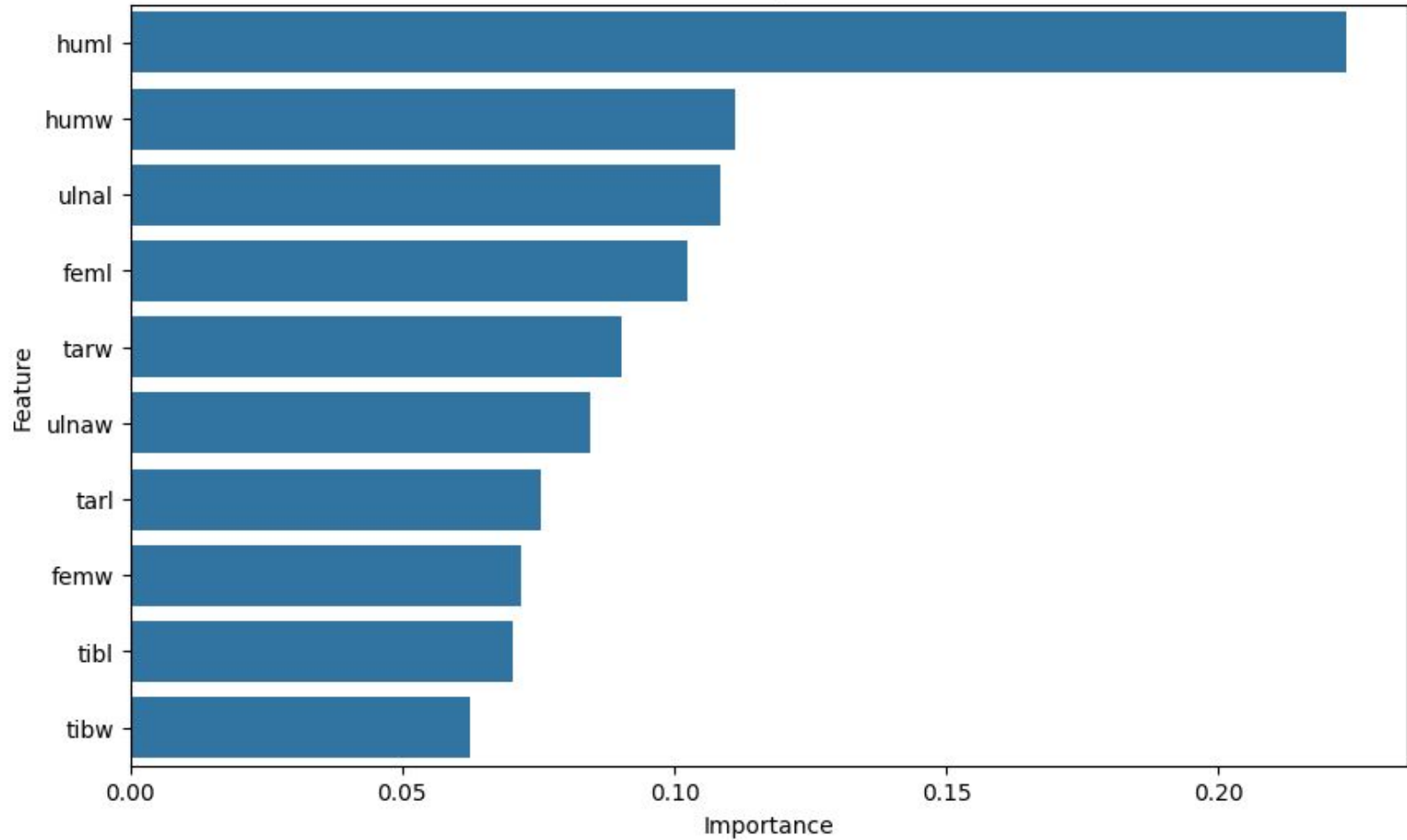
Distribution of Huml across Bird Types

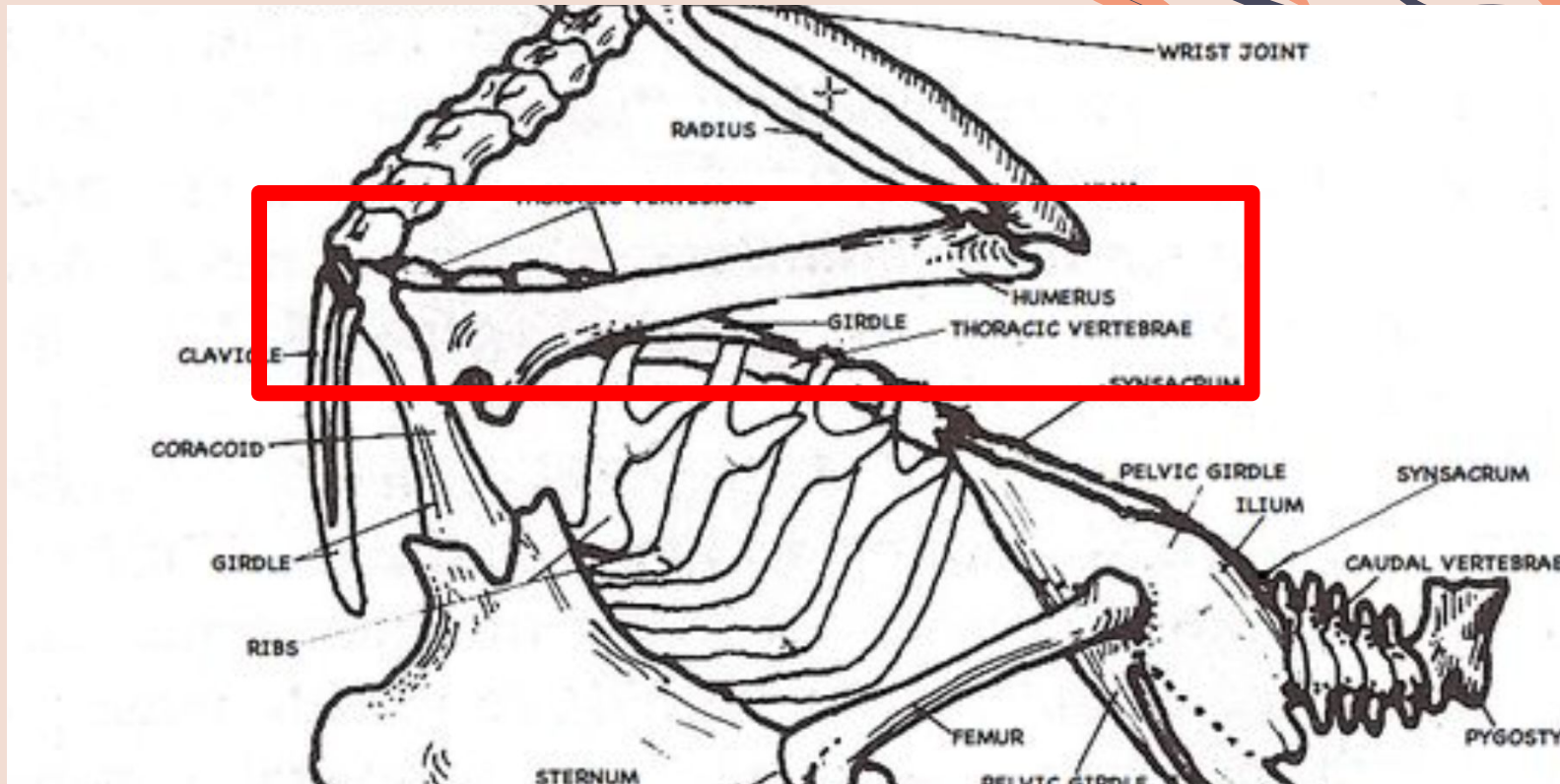


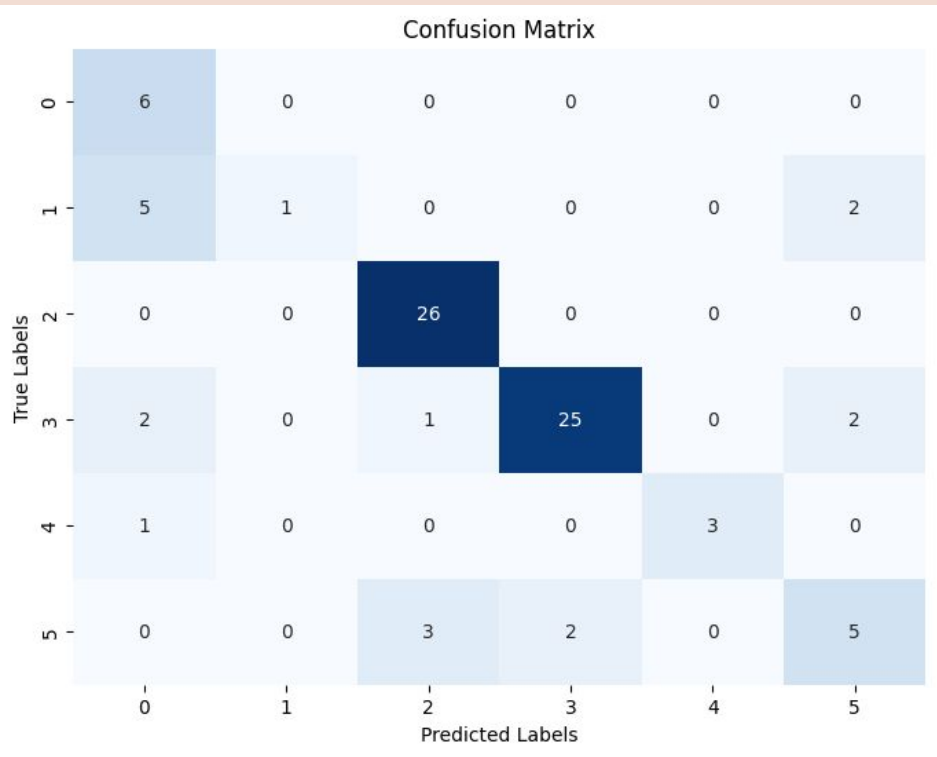


Accuracy: 0.8214285714285714

Feature Importances



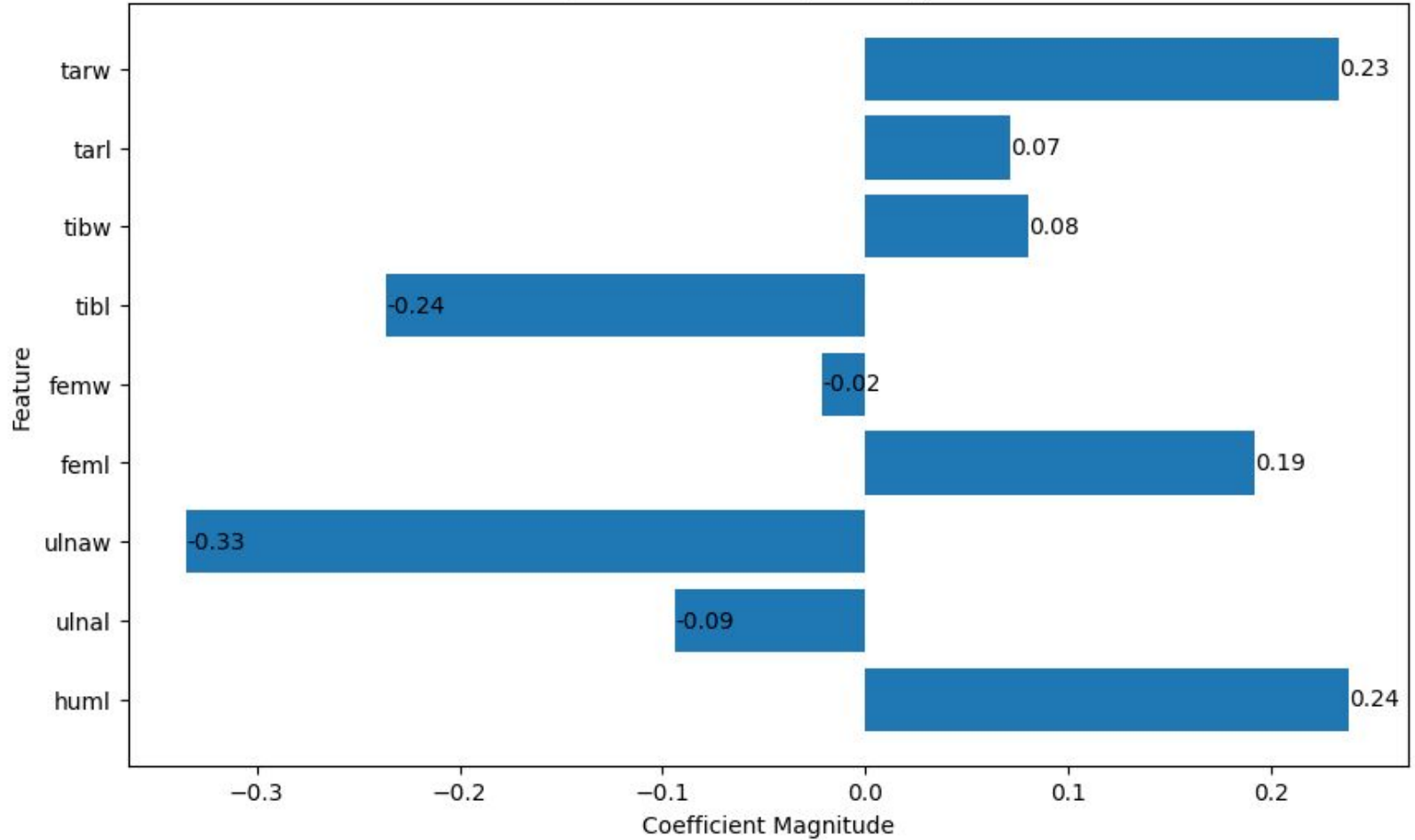




Accuracy: 0.7857142857142857

Classification Report:				
	precision	recall	f1-score	support
Raptors	0.43	1.00	0.60	6
Scansorial Birds	1.00	0.12	0.22	8
Singing Birds	0.87	1.00	0.93	26
Swimming Birds	0.93	0.83	0.88	30
Terrestrial Birds	1.00	0.75	0.86	4
Wading Birds	0.56	0.50	0.53	10
accuracy			0.79	84
macro avg	0.80	0.70	0.67	84
weighted avg	0.84	0.79	0.77	84

Feature Importance from Logistic Regression Model



Parameter Tuning: Regularization Strength (C)

