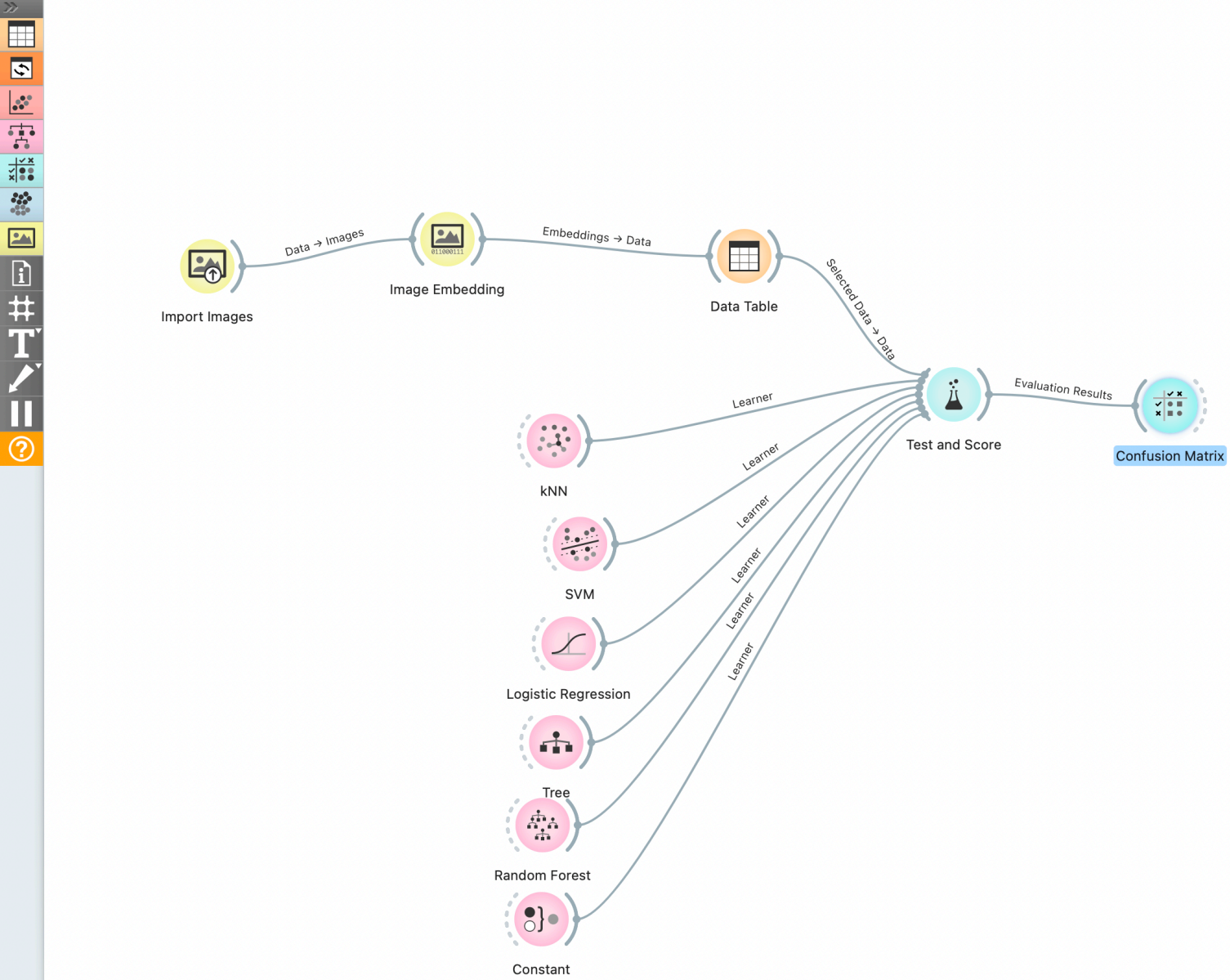
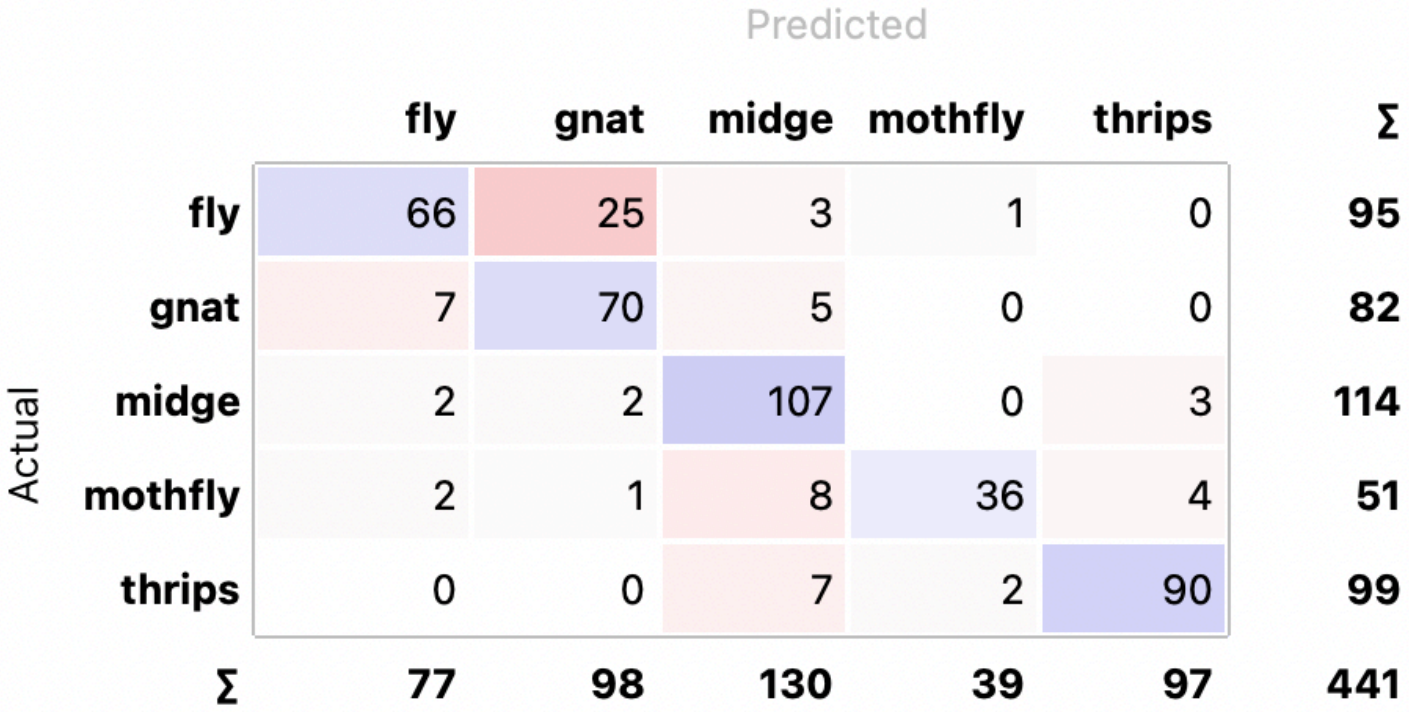


Model	AUC	CA	F1	Prec	Recall	MCC
kNN	0.965	0.837	0.835	0.845	0.837	0.795
SVM	0.987	0.905	0.904	0.907	0.905	0.879
Logistic Regression	0.992	0.934	0.934	0.934	0.934	0.917
Tree	0.821	0.689	0.687	0.687	0.689	0.606
Random Forest	0.945	0.773	0.768	0.779	0.773	0.712
Constant	0.494	0.259	0.106	0.067	0.259	0.000

Why linear regression can't use for classification?

1. Linear Regression deals with continuous values whereas images are discrete values.
2. The threshold value may change after adding more data points

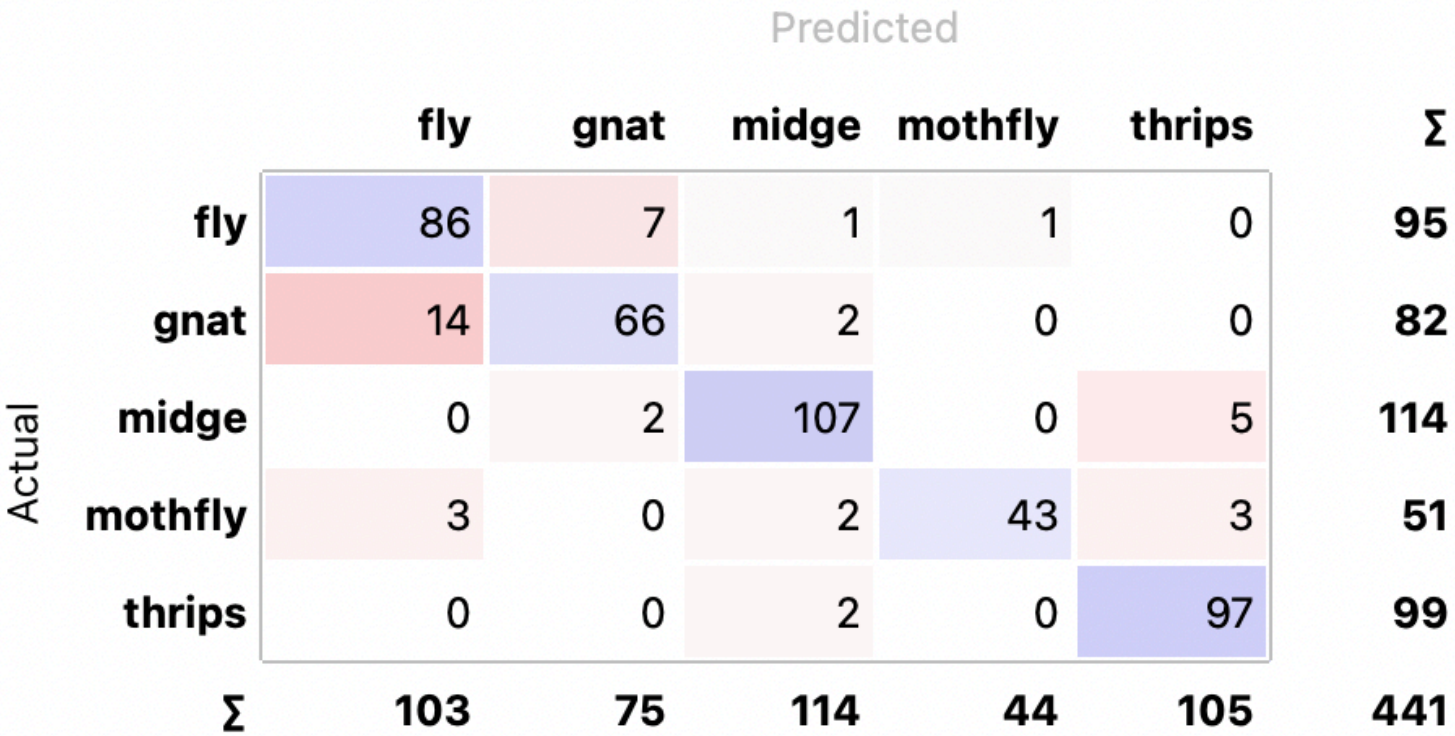
KNN



Predicted

Actual	fly	gnat	midge	mothfly	thrips	Σ
fly	66	25	3	1	0	95
gnat	7	70	5	0	0	82
midge	2	2	107	0	3	114
mothfly	2	1	8	36	4	51
thrips	0	0	7	2	90	99
Σ	77	98	130	39	97	441

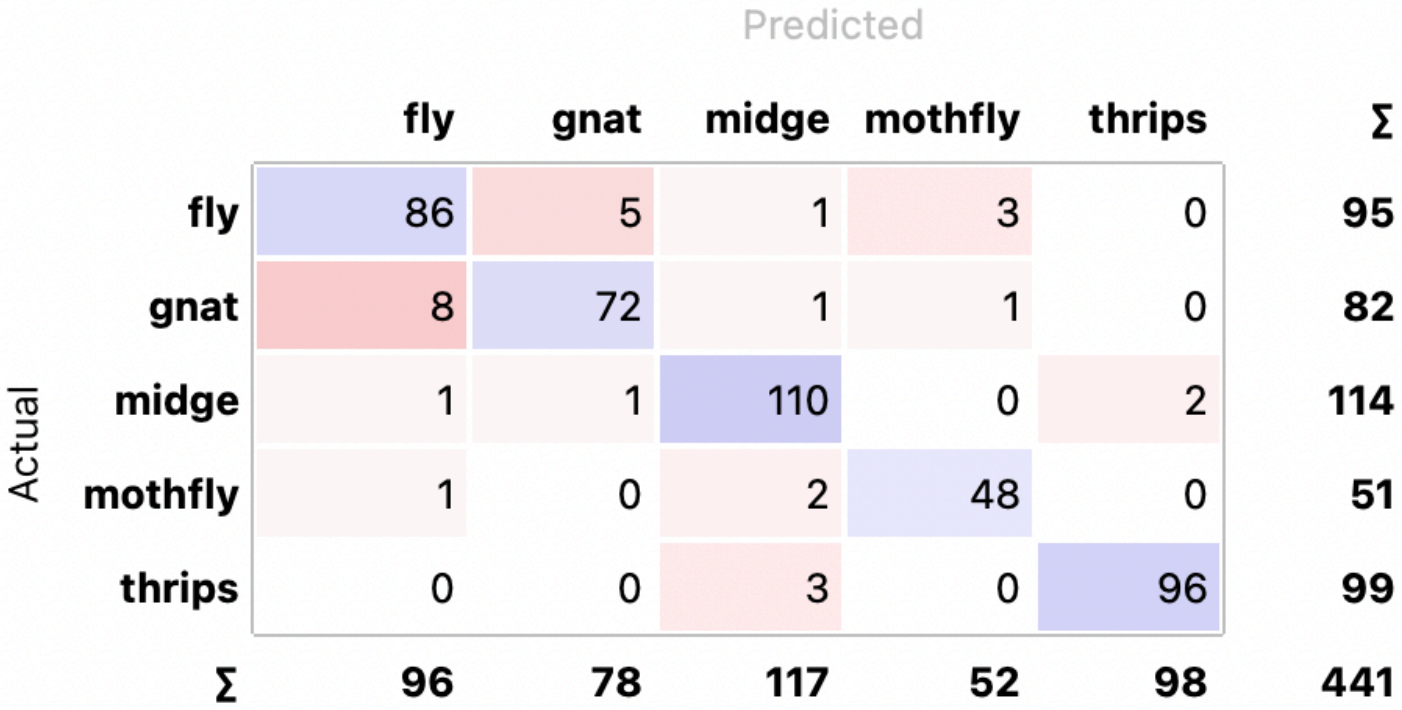
SVM



Predicted

Actual	fly	gnat	midge	mothfly	thrips	Σ
fly	86	7	1	1	0	95
gnat	14	66	2	0	0	82
midge	0	2	107	0	5	114
mothfly	3	0	2	43	3	51
thrips	0	0	2	0	97	99
Σ	103	75	114	44	105	441

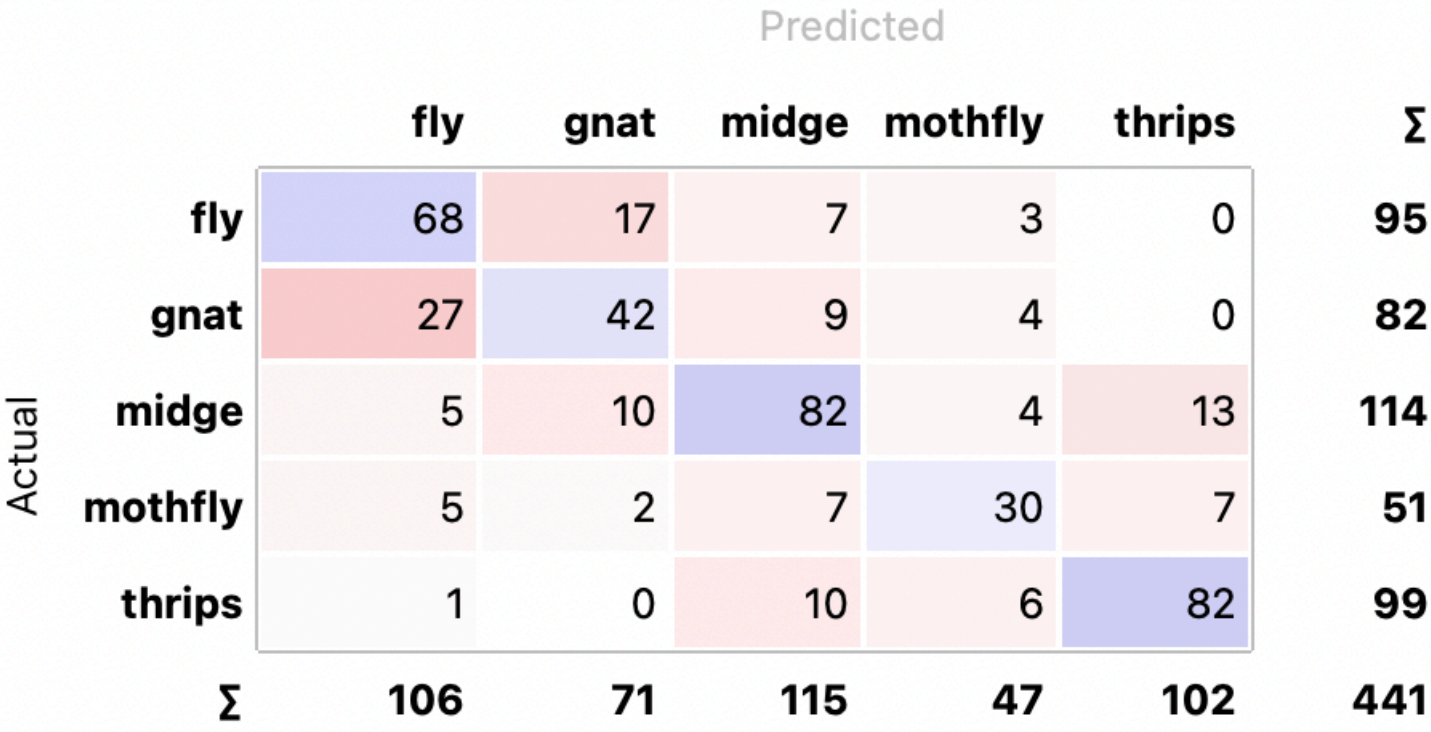
Logistics Regression



Predicted

Actual	fly	gnat	midge	mothfly	thrips	Σ
fly	86	5	1	3	0	95
gnat	8	72	1	1	0	82
midge	1	1	110	0	2	114
mothfly	1	0	2	48	0	51
thrips	0	0	3	0	96	99
Σ	96	78	117	52	98	441

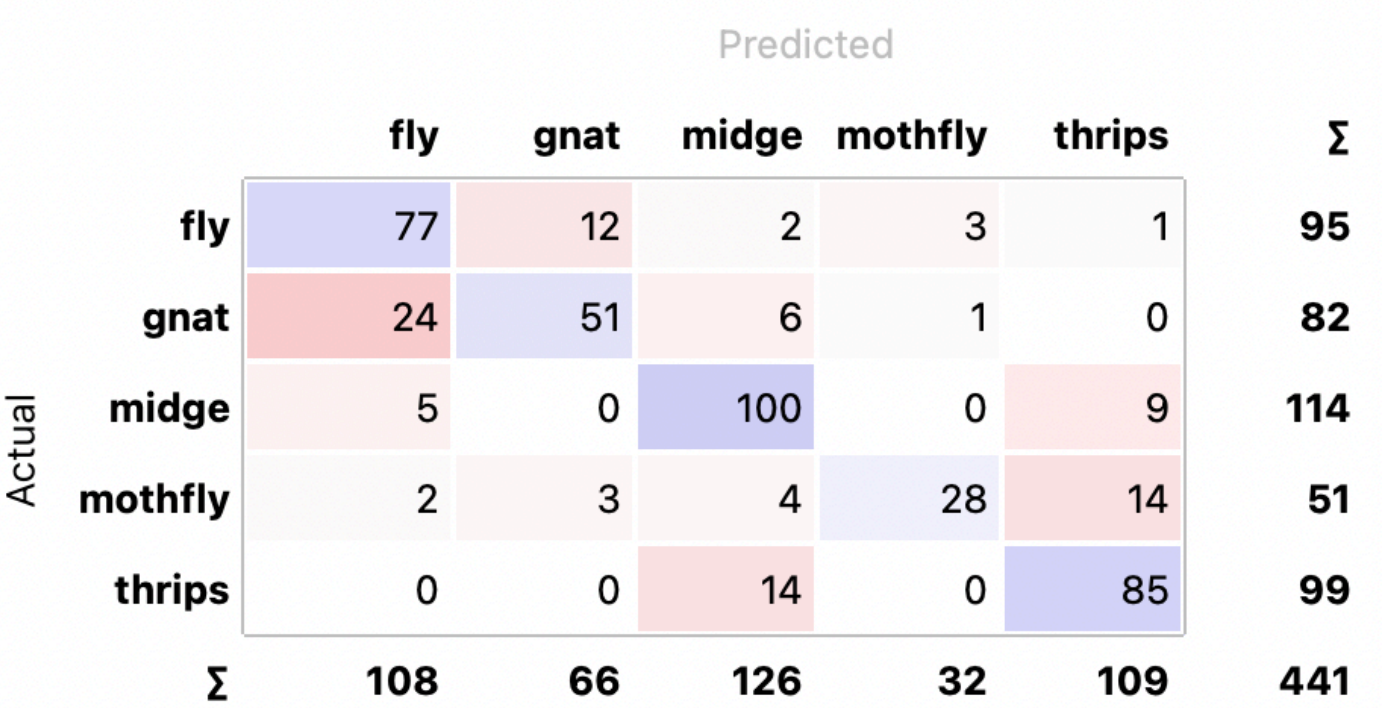
Tree



Predicted

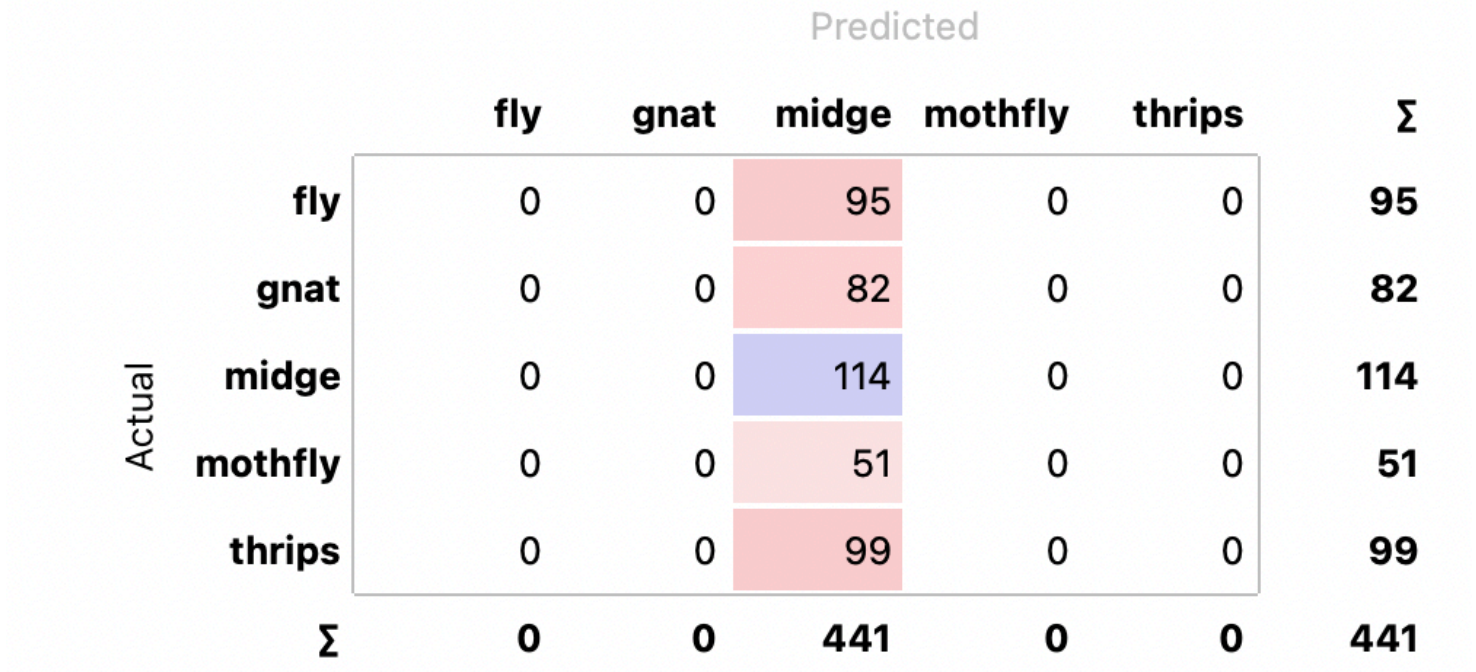
Actual	fly	gnat	midge	mothfly	thrips	Σ
fly	68	17	7	3	0	95
gnat	27	42	9	4	0	82
midge	5	10	82	4	13	114
mothfly	5	2	7	30	7	51
thrips	1	0	10	6	82	99
Σ	106	71	115	47	102	441

Random Forest



Actual \ Predicted	fly	gnat	midge	mothfly	thrips	Σ
fly	77	12	2	3	1	95
gnat	24	51	6	1	0	82
midge	5	0	100	0	9	114
mothfly	2	3	4	28	14	51
thrips	0	0	14	0	85	99
Σ	108	66	126	32	109	441

Constant



Actual \ Predicted	fly	gnat	midge	mothfly	thrips	Σ
fly	0	0	95	0	0	95
gnat	0	0	82	0	0	82
midge	0	0	114	0	0	114
mothfly	0	0	51	0	0	51
thrips	0	0	99	0	0	99
Σ	0	0	441	0	0	441