

Current Process

Dataset

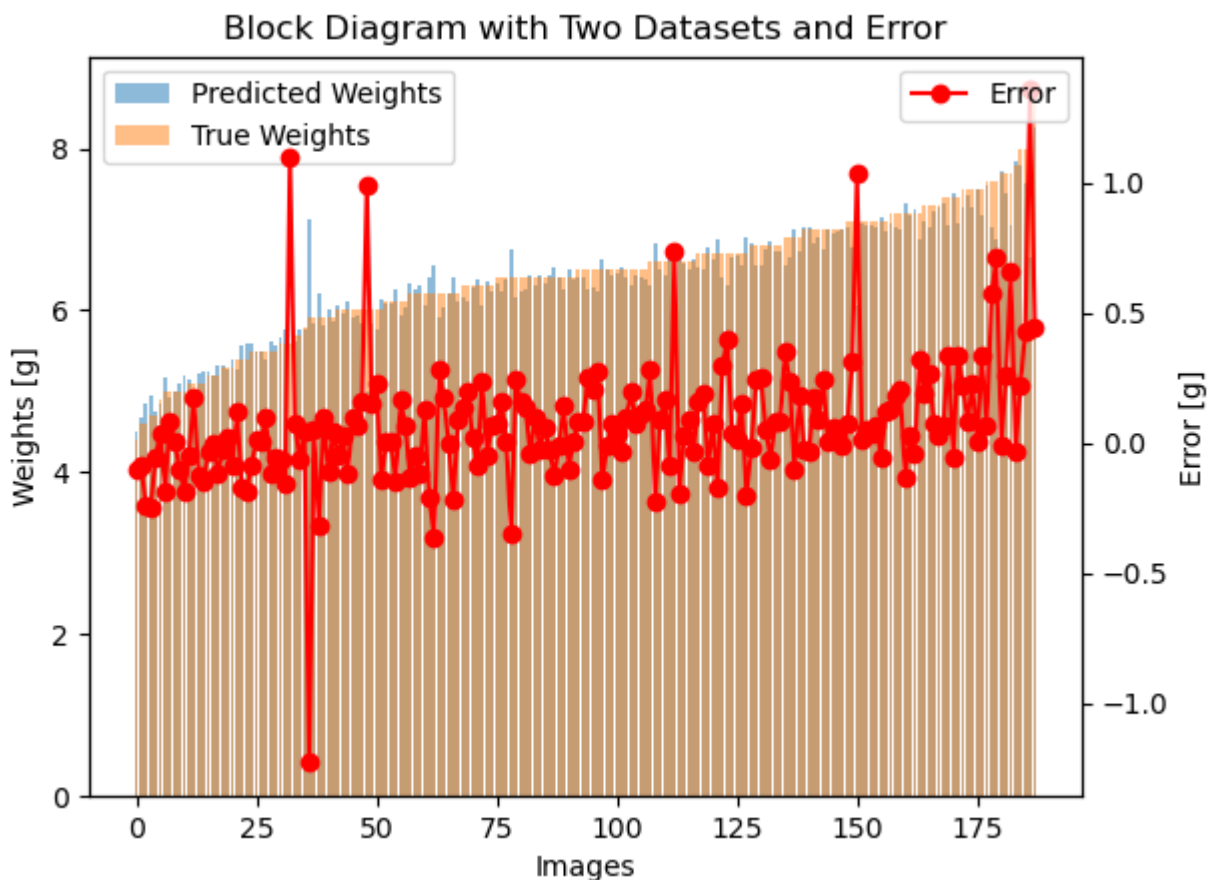
weight data summary:

Average: 3.1761438846588135 g,
Max Weight: 7.28000020980835 g,
Min Weight: 0.6600000262260437 g,
Mediam: 3.0799999237060547 g

Size Prediction

Predict Length and Height of a fish.

Length Error:
Average: 0.16352812945842743 cm,
Max Error: 1.3571410179138184 cm,
Min Error: 0.0009355545043945312 cm,
Mediam: 0.10247135162353516 cm



TO DO: Get rid of outliers/segment fish manually for further weight prediction.

Weight Prediction

FeedFoward NN:

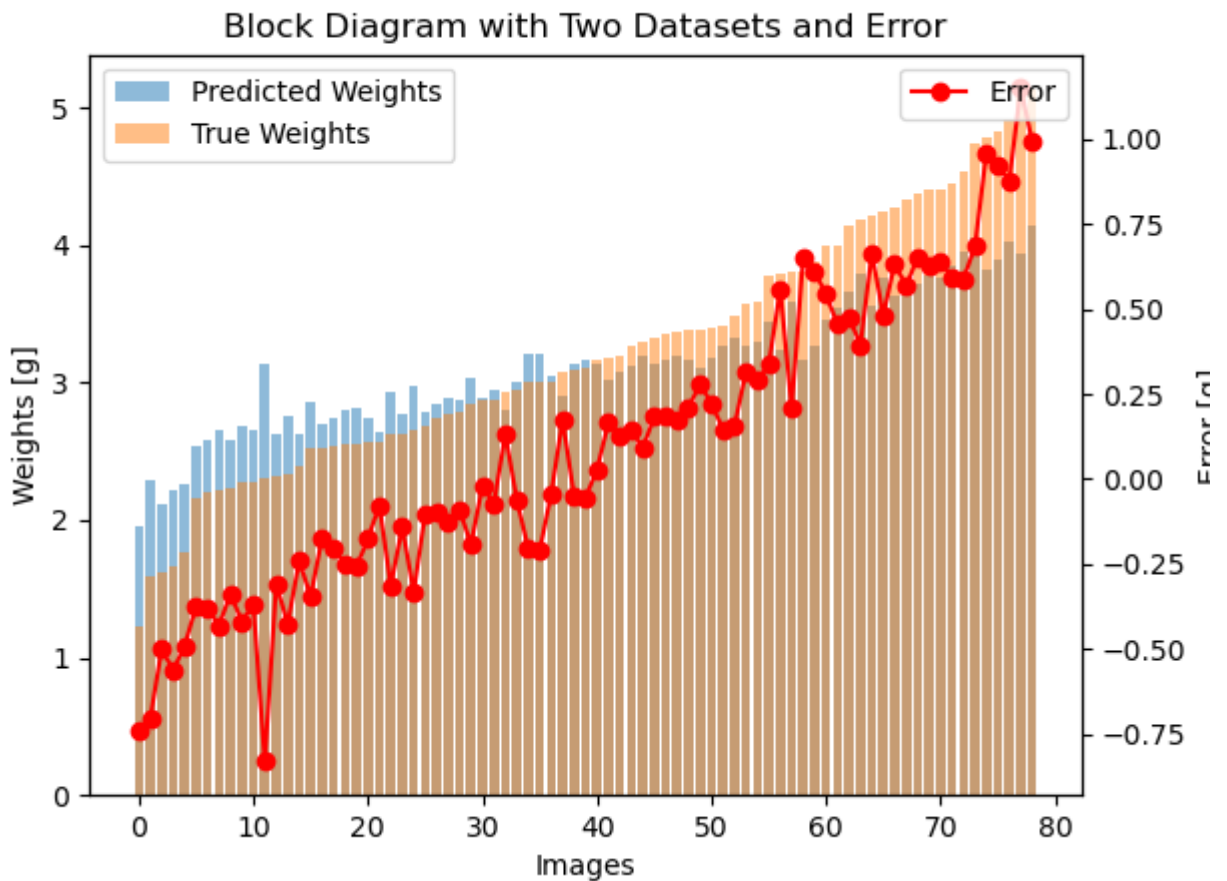
Weight Error:

Average: 0.0959256961941719 g,

Max : 1.1504442691802979 g,

Min : -0.8314871788024902 g,

Mediam : 0.0901954174041748 g



XGBoost:

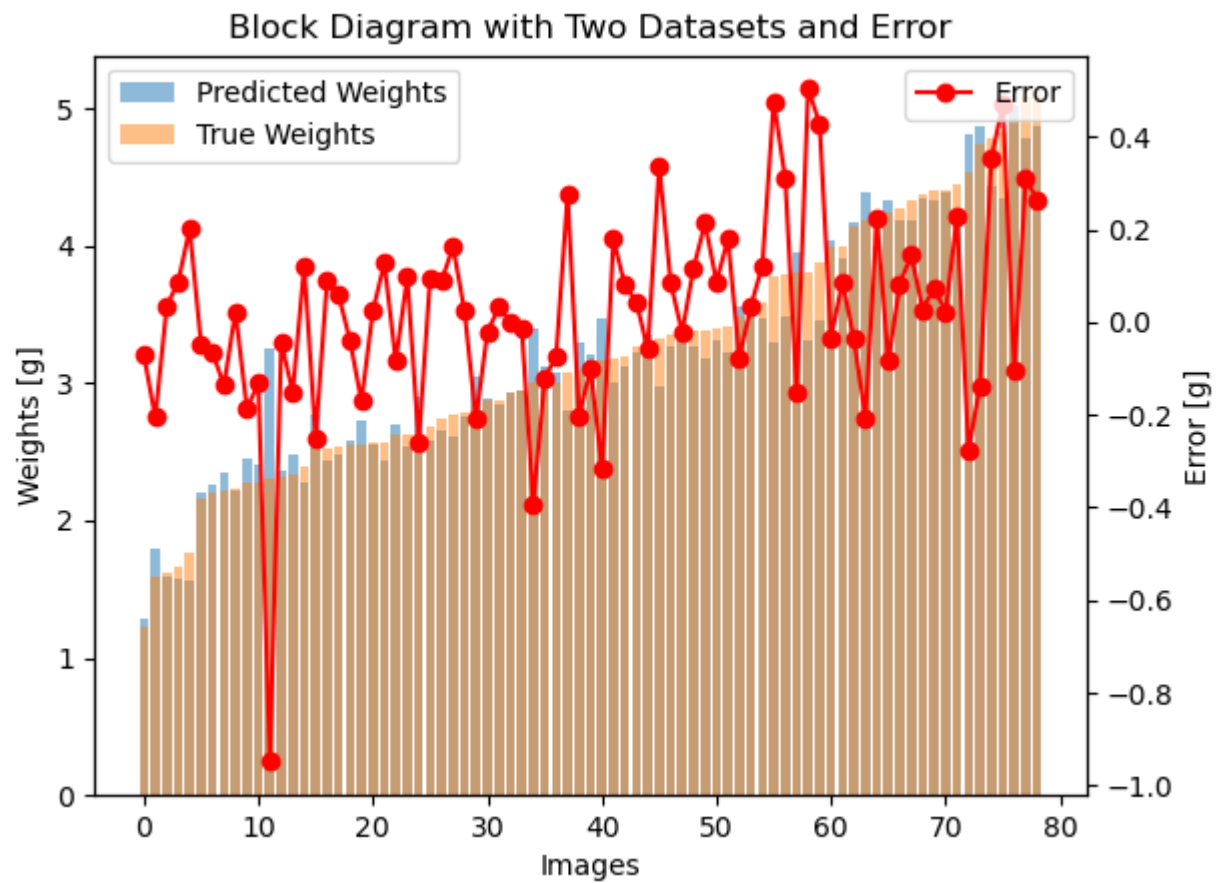
Weight Error:

Average: 0.020155910402536392 g,

Max : 0.5028817653656006 g,

Min : -0.9480986595153809 g,

Mediam : 0.023881912231445312 g



Error Evaluation

Error results from detection & segmentation:

output



- wrong width and height information is generated.

Error results from model prediction: