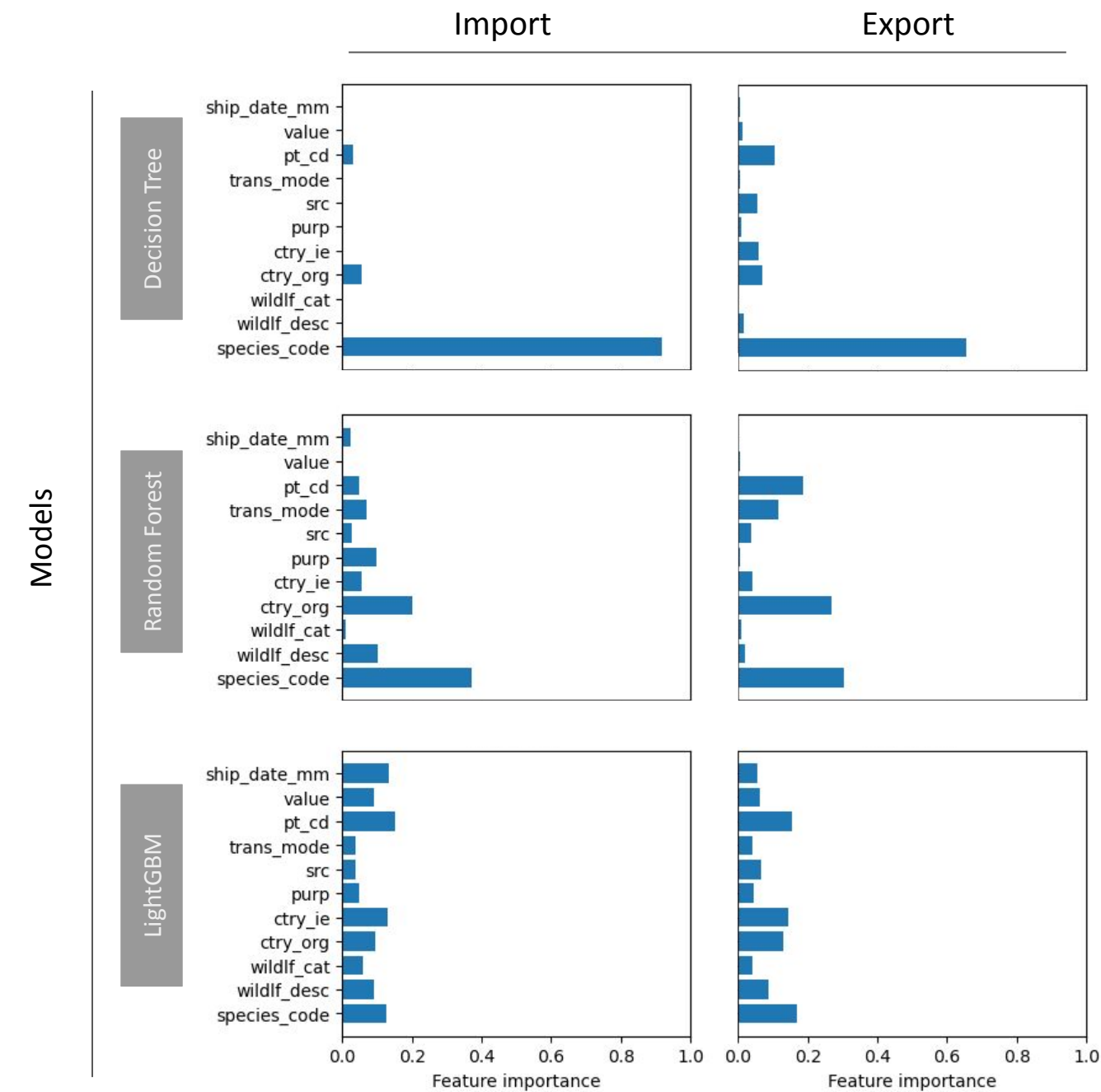# Paper Plots

# Feature Importance Comparison
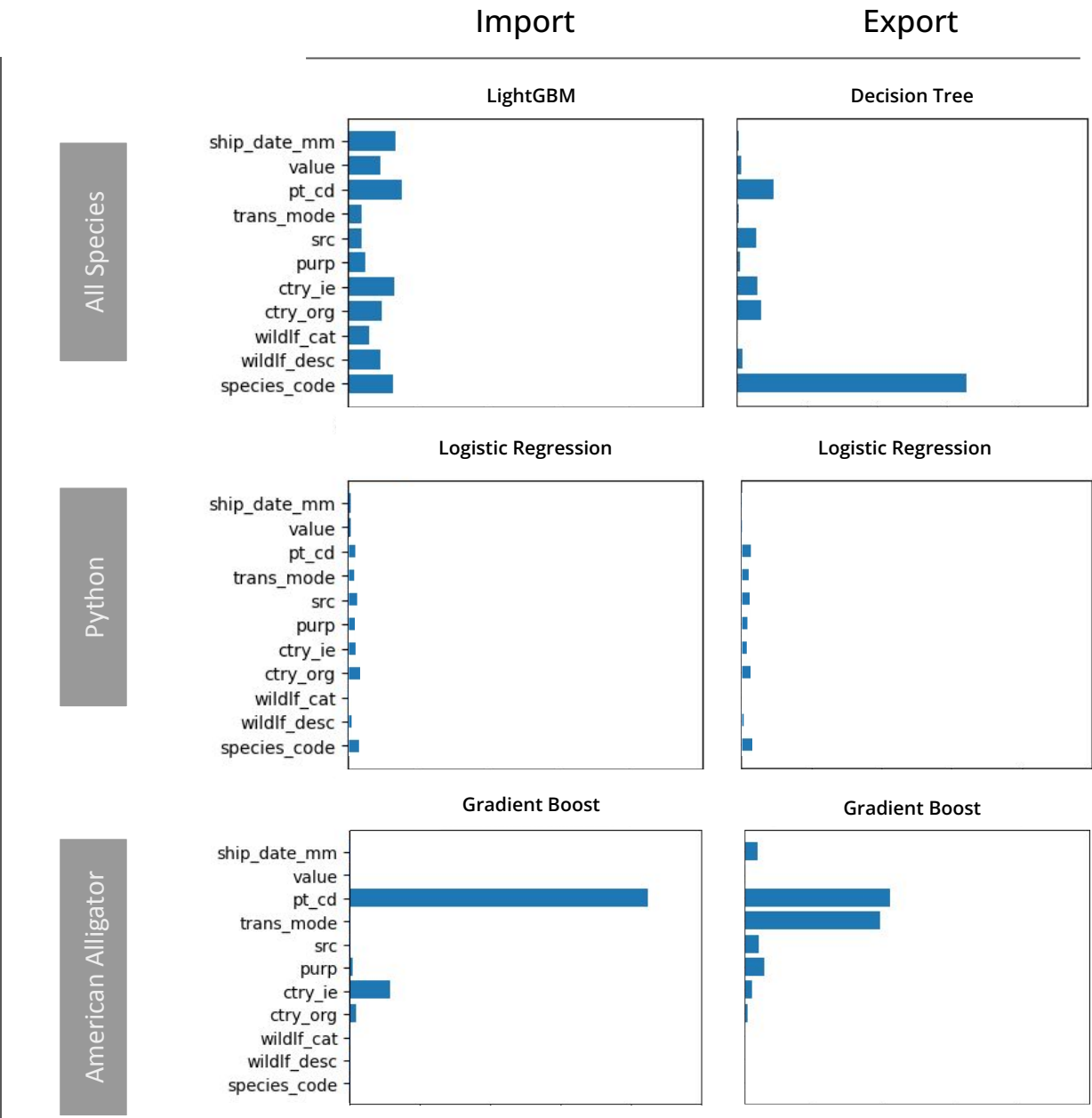
Across 5-fold GridSearchCV Best Estimators

# Feature Importance Comparison

Across 5-fold GridSearchCV Best Estimators



Import          Export

**Best Performing Models by Species**

**All Species**

LightGBM          Decision Tree

**Python**

Logistic Regression          Logistic Regression

**American Alligator**

Gradient Boost          Gradient Boost

Features (top to bottom): ship_date_mm, value, pt_cd, trans_mode, src, purp, ctry_ie, ctry_org, wildlf_cat, wildlf_desc, species_code

# Failure Analysis Comparison

Across 5-fold GridSearchCV Best Estimators (Seized = 1, Clear =0)
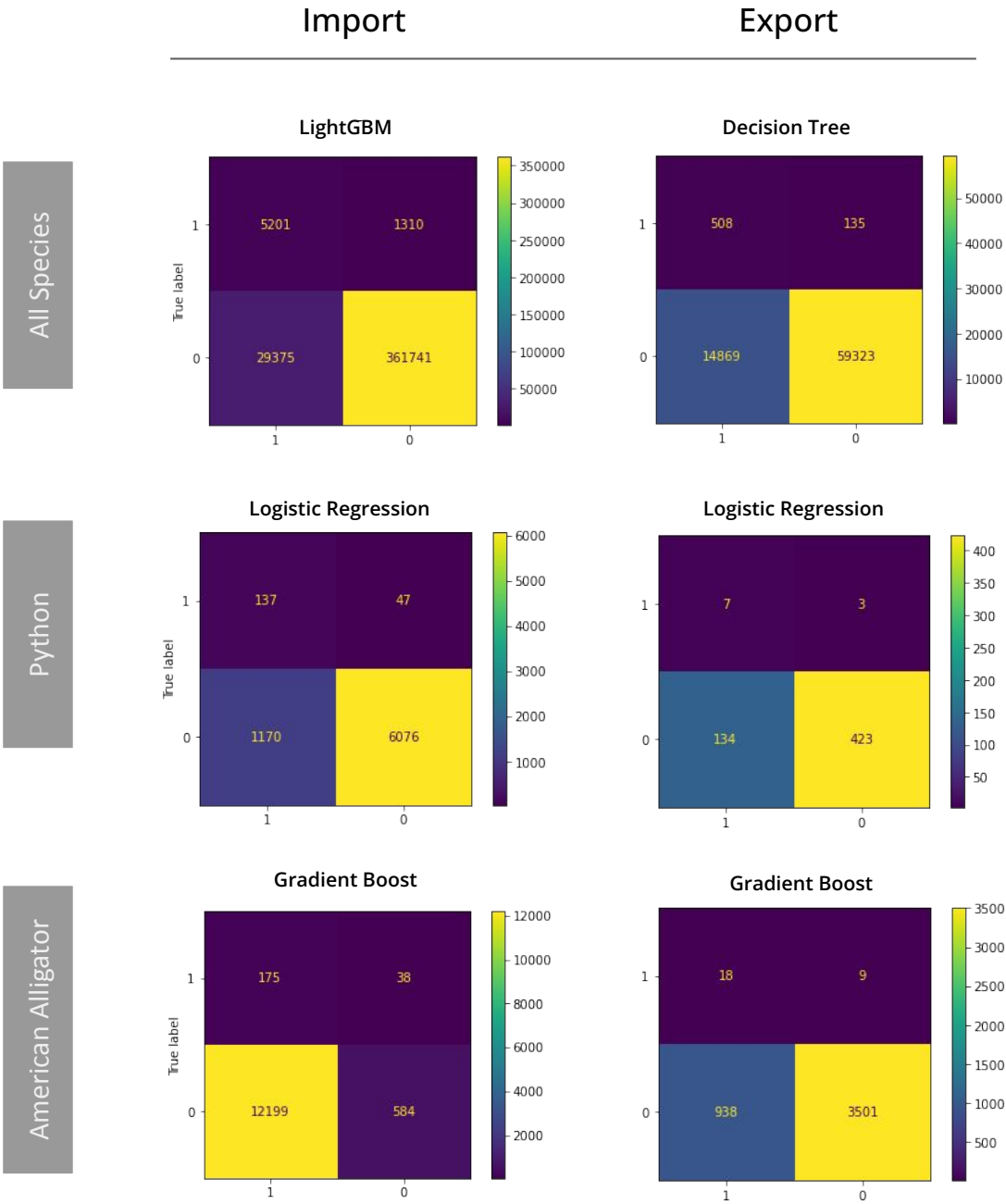
# Feature Importance Comparison

Across 5-fold GridSearchCV Best Estimators

**Best Performing Models by Species**

|  | Import | Export |
|---|---|---|

## All Species

### LightGBM (Import) / Decision Tree (Export)



## Python

### Logistic Regression (Import) / Logistic Regression (Export)



## American Alligator

### Gradient Boost (Import) / Gradient Boost (Export)



## Bald Eagle

### Decision Tree (Import)



Feature importance