→ Evaluate All-Feature SV Classifier

```
# Train the Logistic Regression classifier with best feature and associated best coefficient
best svm = SVC(C=best coeff svm, kernel="rbf")
best_svm.fit(X_train, y_train)
# Make predictions on the test data
best_svm_preds = best_svm.predict(X_test)
# Display report on model
display_model_evaluation(
    y_test,
    best_svm_preds,
    x_feature_names,
    "Support Vector",
    best_score_svm,
    best_coeff_svm,
)
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    Model Summary -

      Model Type:
                                    Support Vector
      Features Used:
                                    sepal length (cm), sepal width (cm), petal length (cm), petal width (cm)
      Regularization Coefficient:
                                    2.78e+00
      Accuracy on Training Data:
      Note: Above metrics are based on CV on training data. Below metrics are based on evaluation on test data.
```

Confusion Matrix — Confusion Matrix						
Setosa Versicolor Virginica	Setosa 13 0	Versicolor 0 14 0	Virginica 0 1 10			

Classification Report						
	precision	recall	f1-score	support		
Setosa Versicolor Virginica	1.00 1.00 0.91	1.00 0.93 1.00	1.00 0.97 0.95	13 15 10		
accuracy macro avg weighted avg	0.97 0.98	0.98 0.97	0.97 0.97 0.97	38 38 38		