Dataset Overview

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 5 columns):
 #   Column             Non-Null Count  Dtype  
---  ------             --------------  -----  
 0   sepal length (cm)  150 non-null    float64
 1   sepal width (cm)   150 non-null    float64
 2   petal length (cm)  150 non-null    float64
 3   petal width (cm)   150 non-null    float64
 4   species            150 non-null    object 
dtypes: float64(4), object(1)
memory usage: 6.0+ KB
```

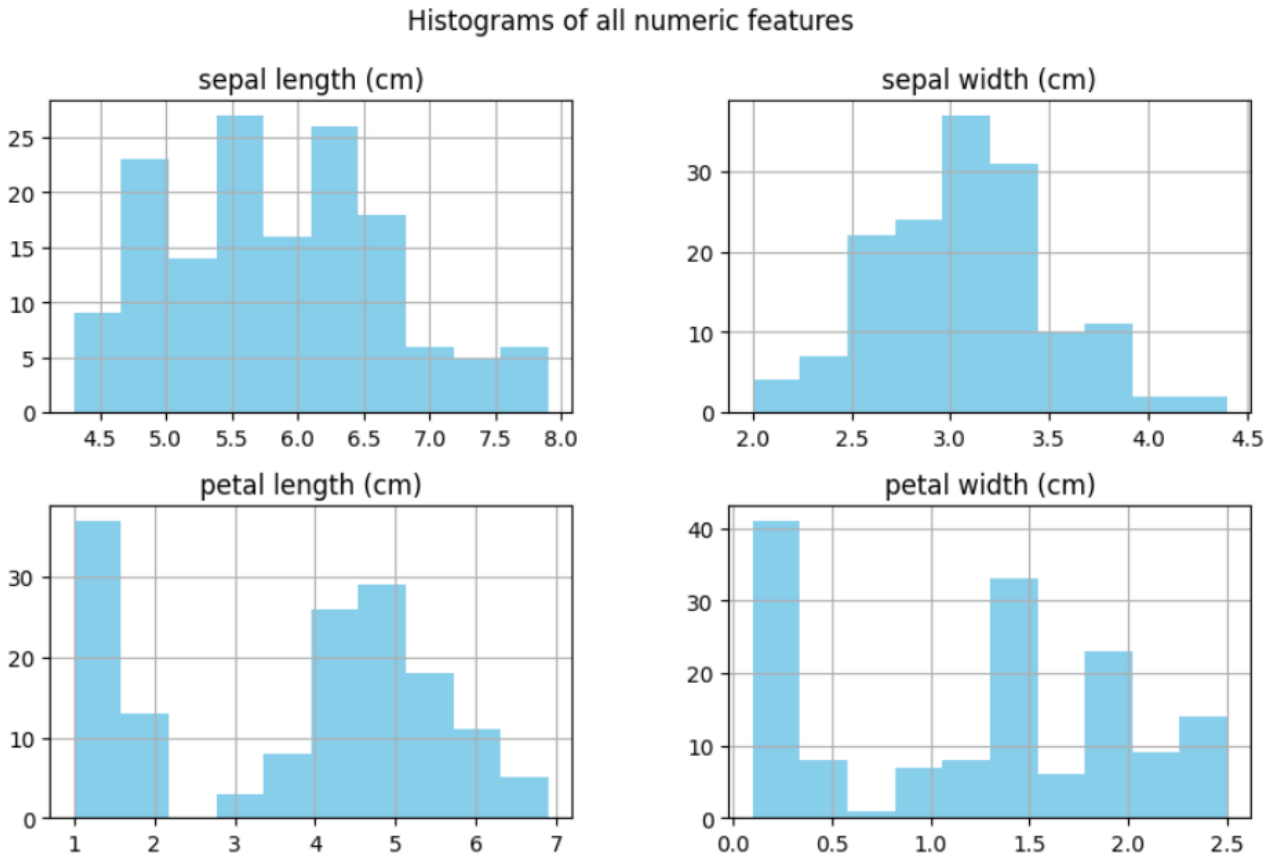
	0
sepal length (cm)	0
sepal width (cm)	0
petal length (cm)	0
petal width (cm)	0
species	0

dtype: int64

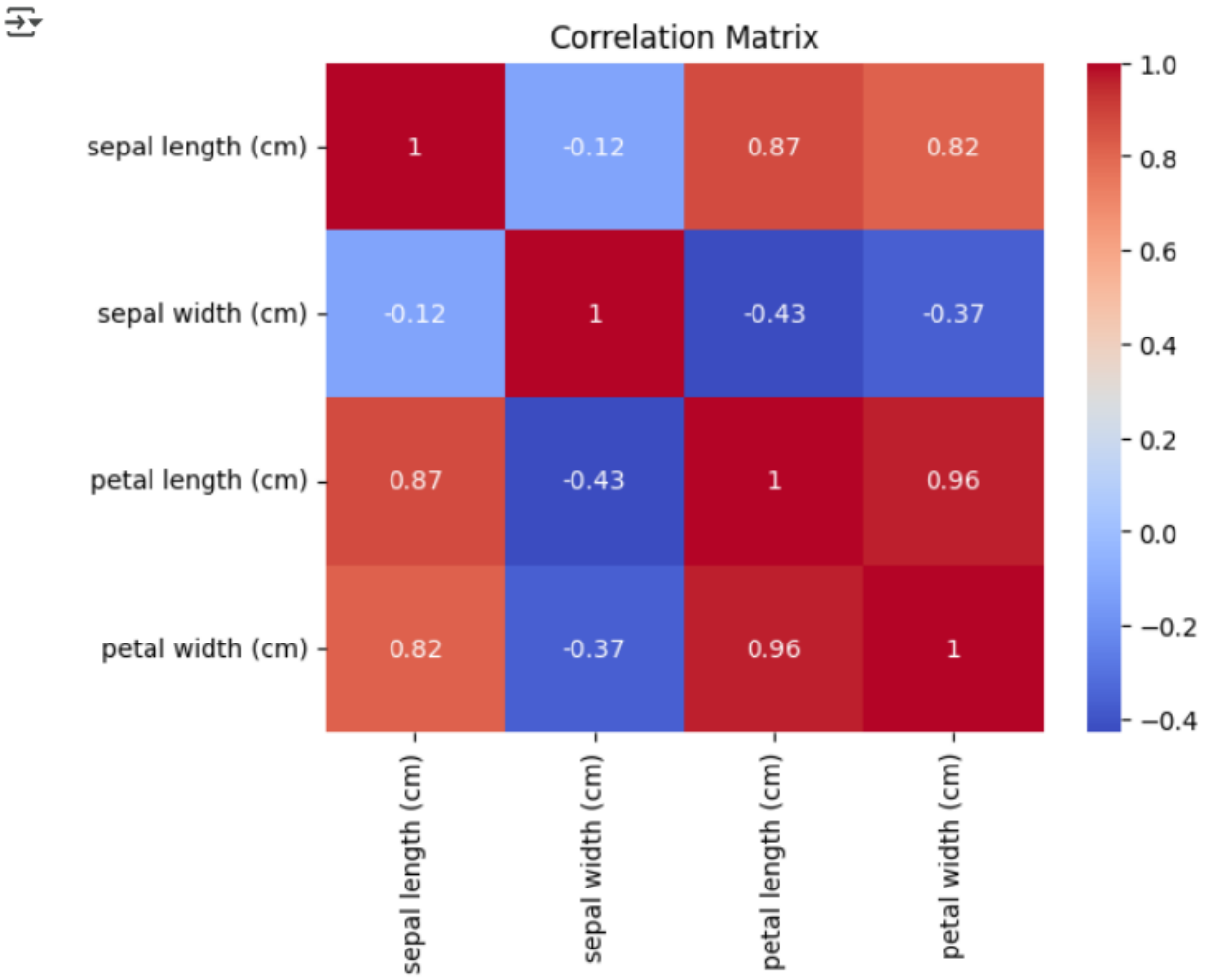
Species-wise Average Values

species	sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)
setosa	5.006	3.428	1.462	0.246
versicolor	5.936	2.770	4.260	1.326
virginica	6.588	2.974	5.552	2.026

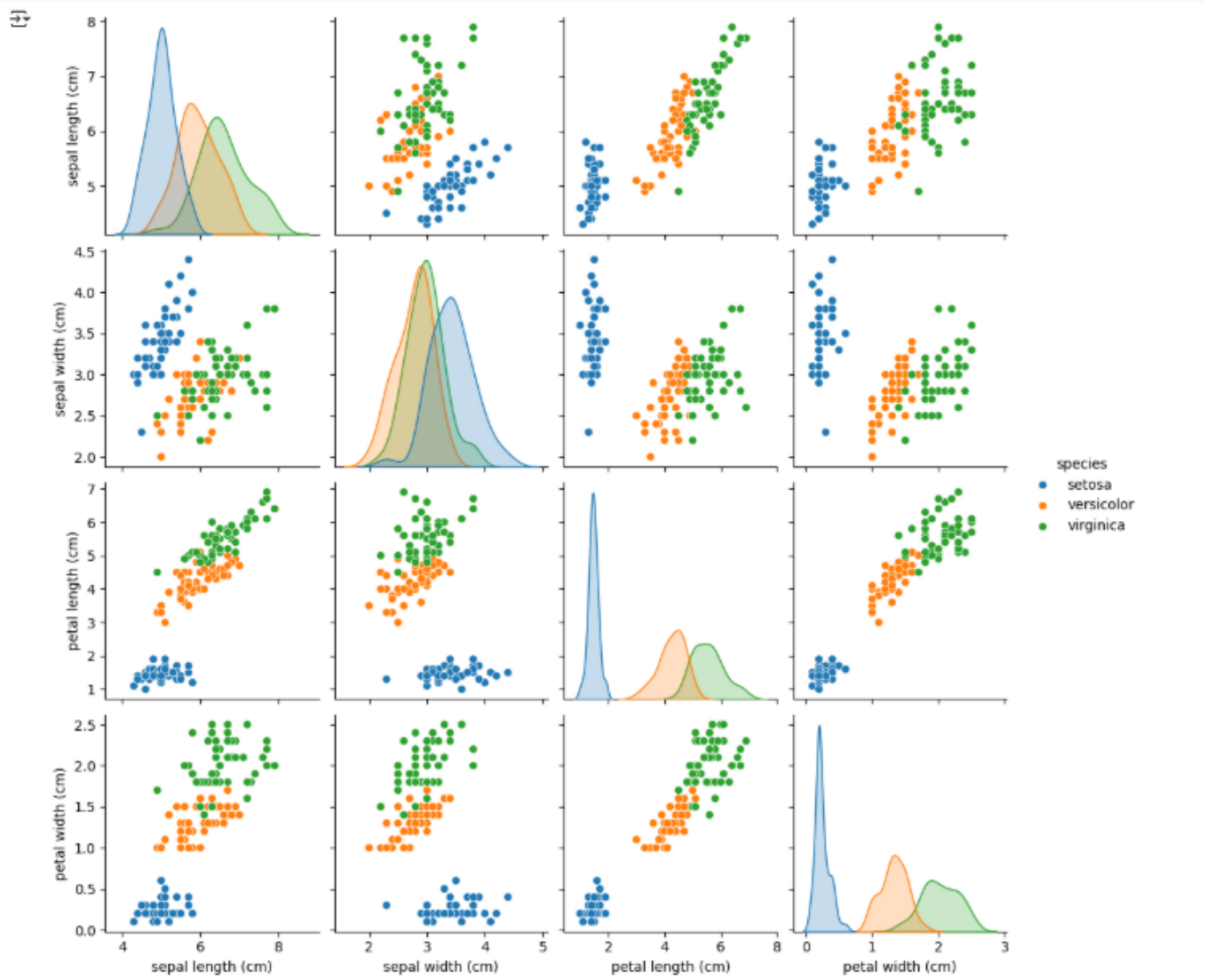
Histograms of All Numeric Features



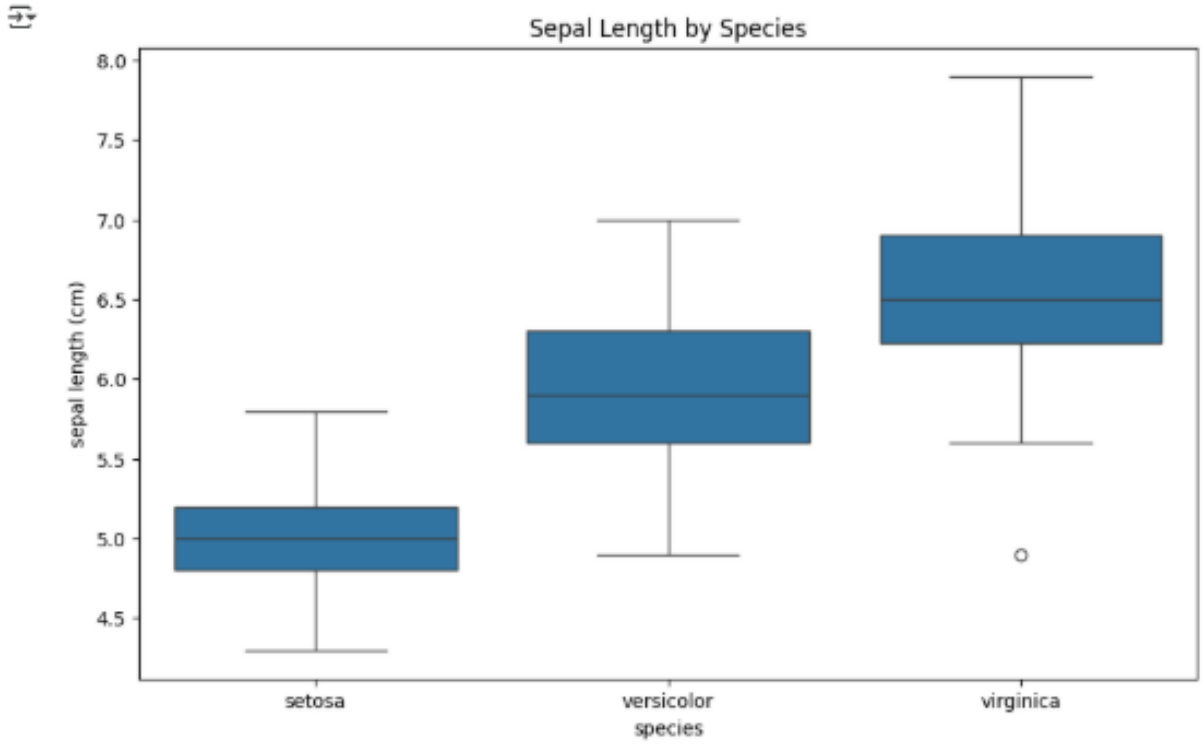
Correlation Matrix Heatmap



Pairplot for Visualizing Feature Relationships



Boxplot: Sepal Length by Species



Classification Model Performance (Precision, Recall, F1-Score)

	precision	recall	f1-score	support
setosa	1.00	1.00	1.00	11
versicolor	1.00	1.00	1.00	9
virginica	1.00	1.00	1.00	10
accuracy			1.00	30
macro avg	1.00	1.00	1.00	30
weighted avg	1.00	1.00	1.00	30