

DATA EXPLORATION

PROJECT 2

AATIF PATEL

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TASKS



Load the Iris dataset and explore its structure.

Check for missing values and handle them if necessary.

Visualize the dataset using Plots and Graphs and understand the distributions.

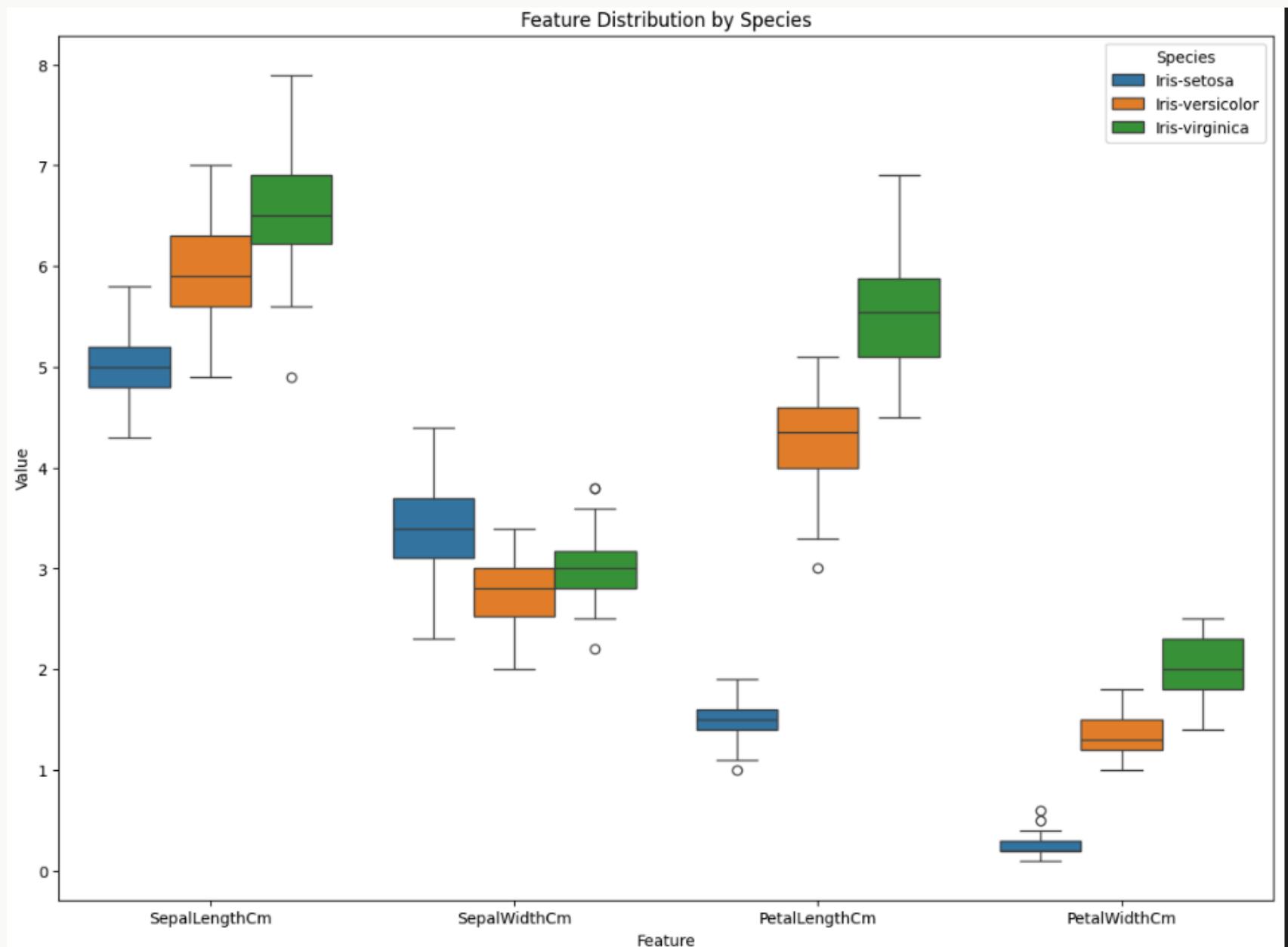
NOTE

The Load the Iris dataset and explore its structure.
Check for missing values and handle them if necessary.

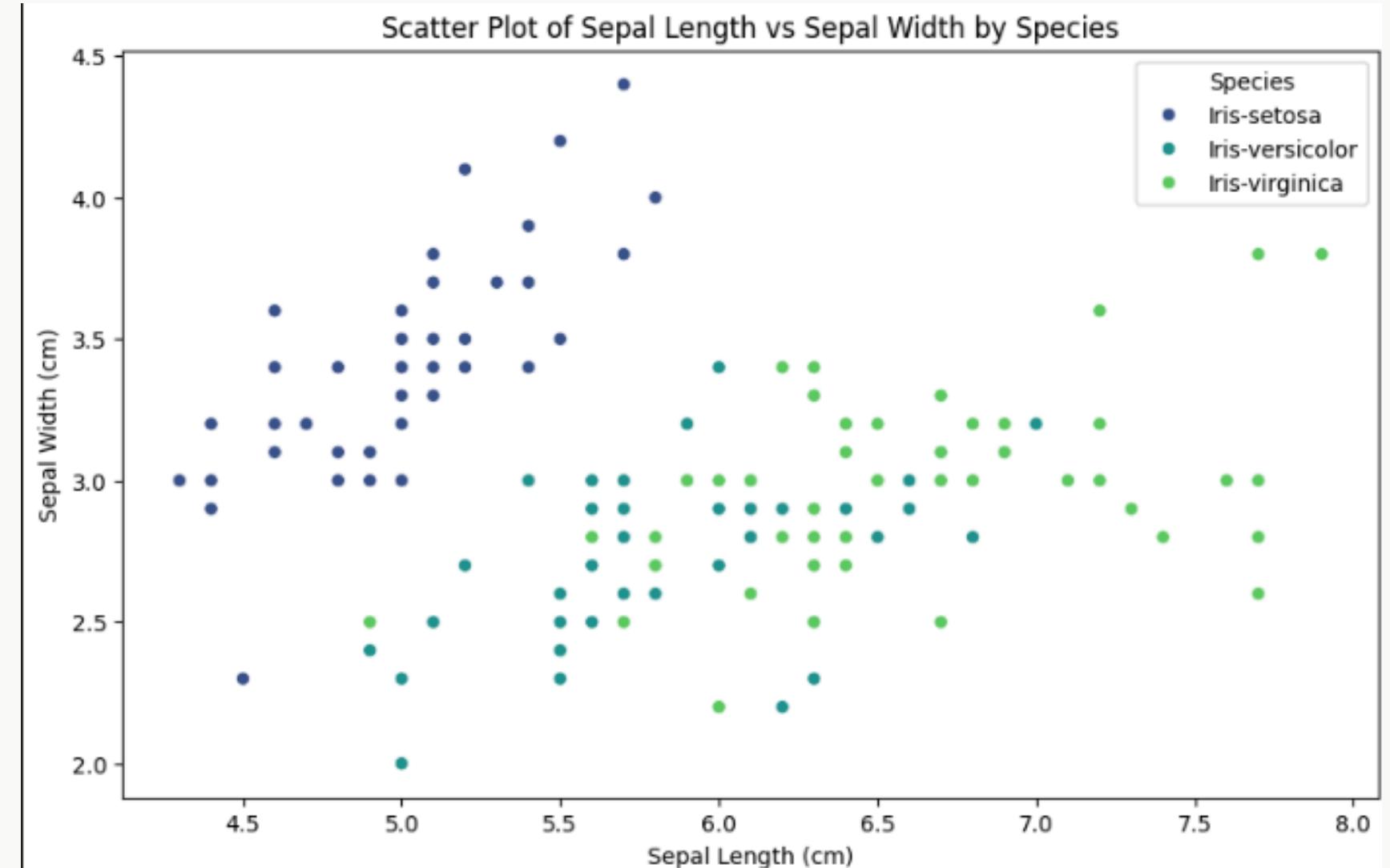
is done and you can see in previous presentation we will see visualization



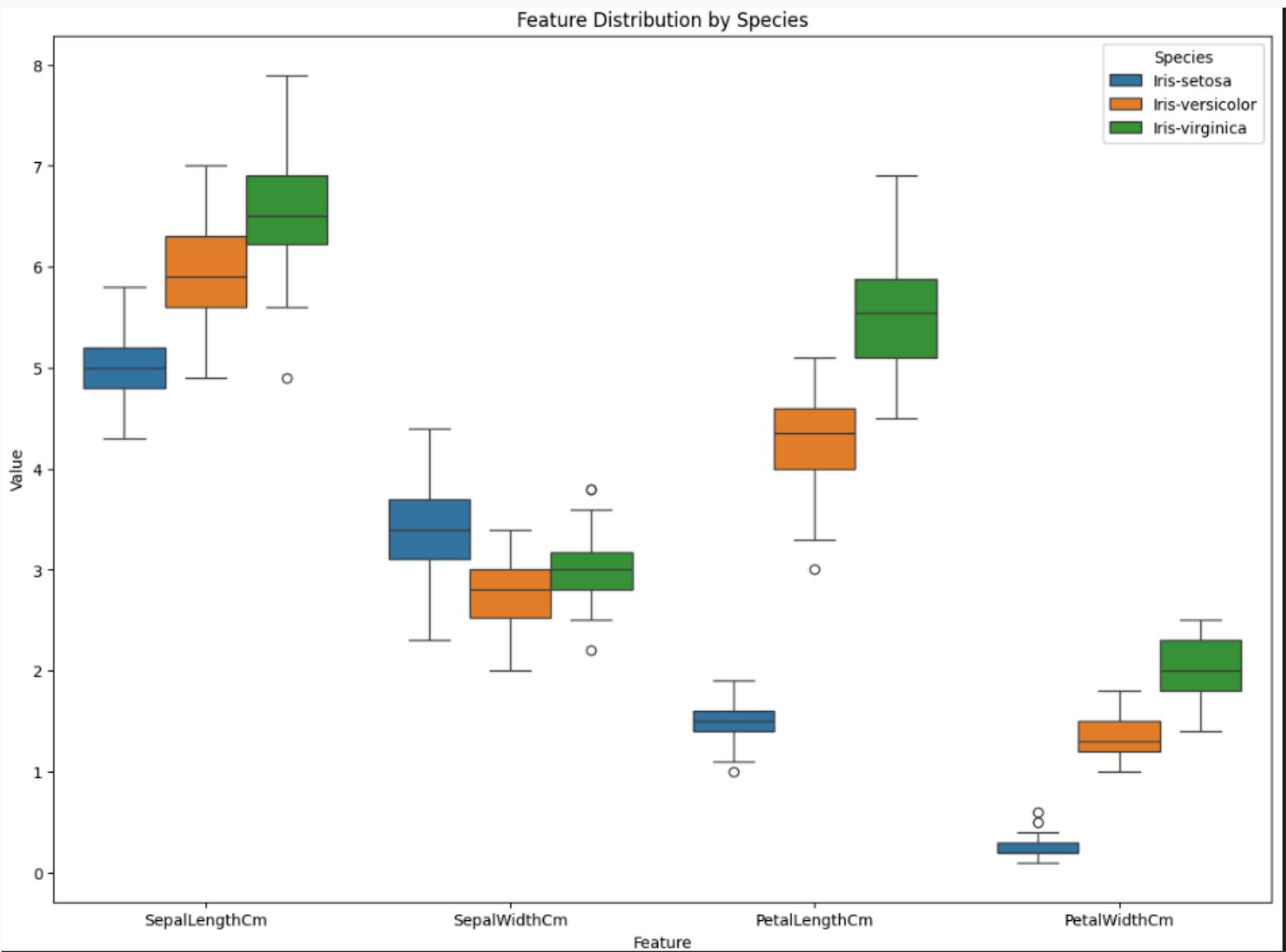
Q1. HOW CAN I VISUALIZE THE DISTRIBUTION OF EACH FEATURE (SEPALLENGTHCM, SEPALWIDTHCM, PETALLENGTHCM, PETALWIDTHCM) FOR THE DIFFERENT SPECIES IN THE IRIS DATASET?



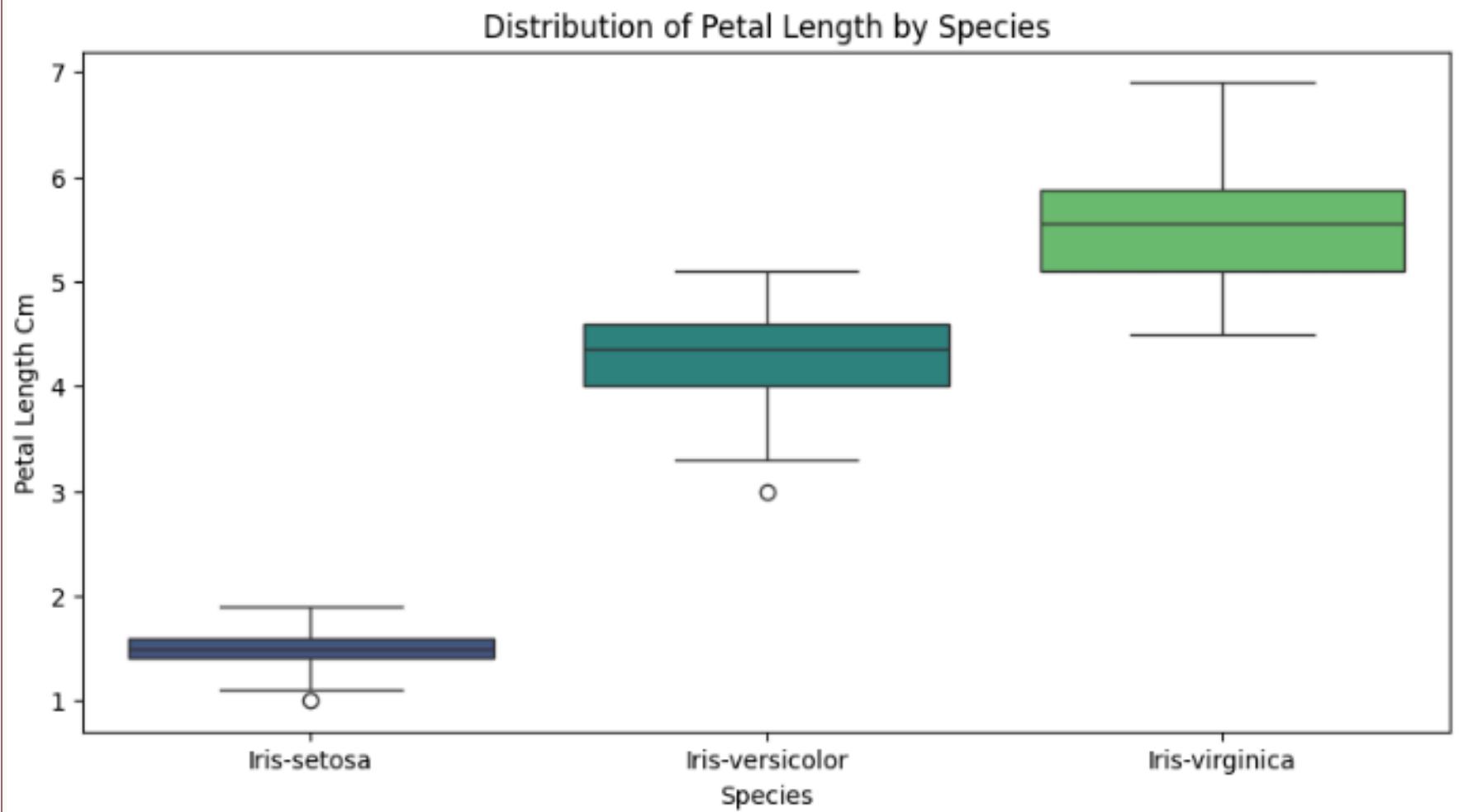
Q2. USE A SCATTER PLOT TO VISUALIZE THE RELATIONSHIP BETWEEN SEPALLENGTHCM AND SEPALWIDTHCM FOR DIFFERENT SPECIES?



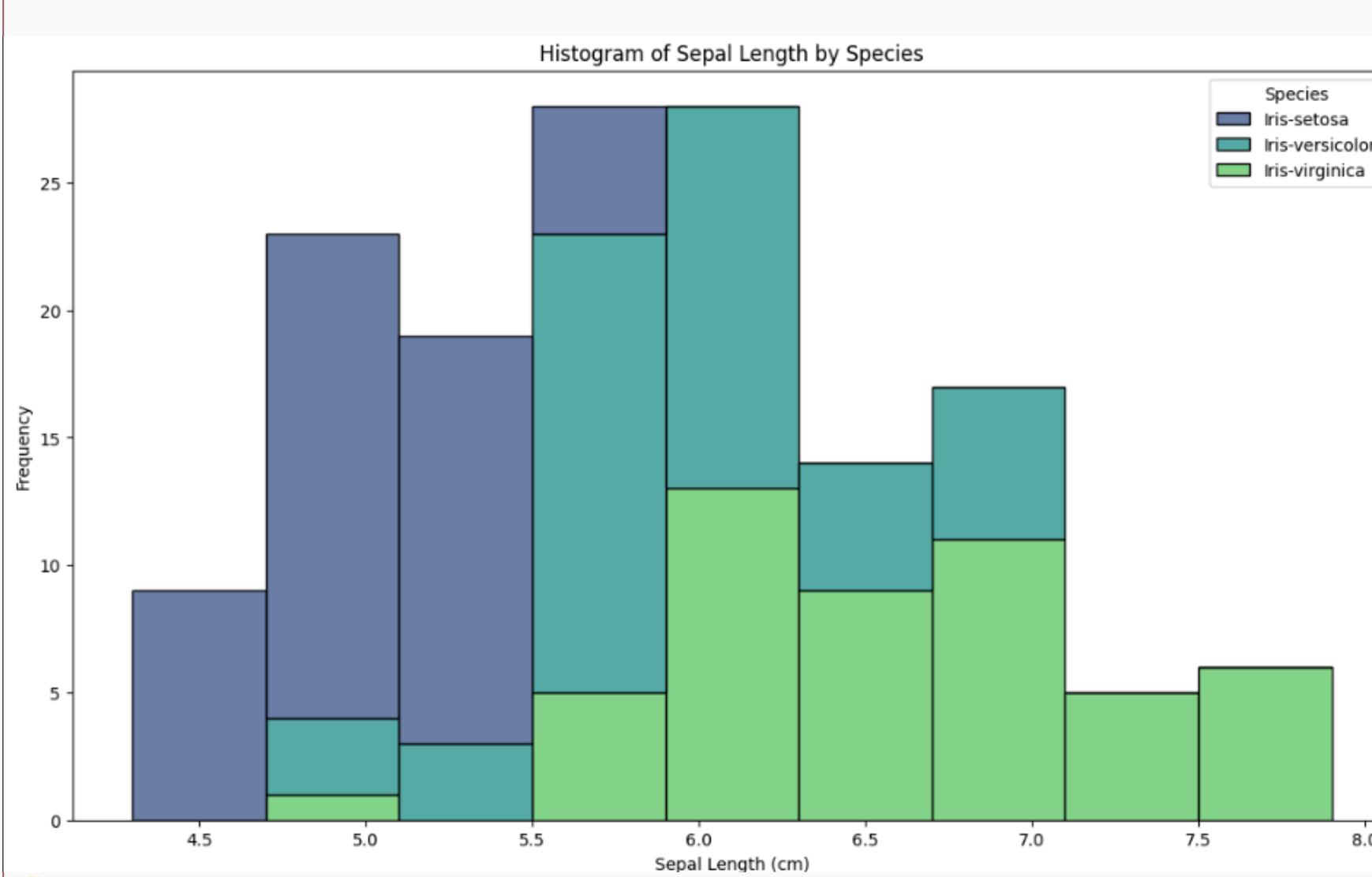
Q3. USE BOX PLOTS TO COMPARE THE SPREAD OF PETALLENGTHCM ACROSS THE DIFFERENT SPECIES IN THE IRIS DATASET?



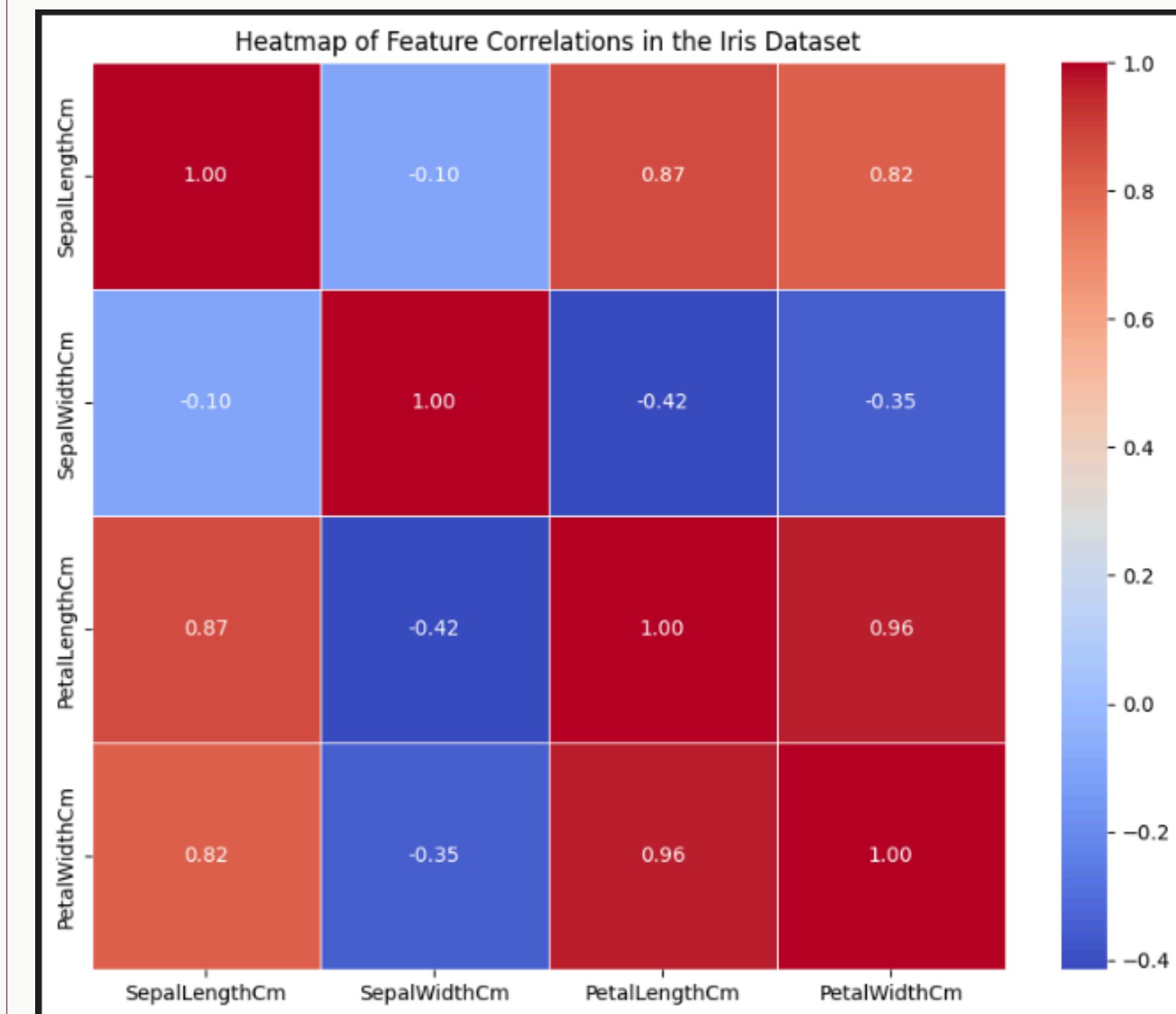
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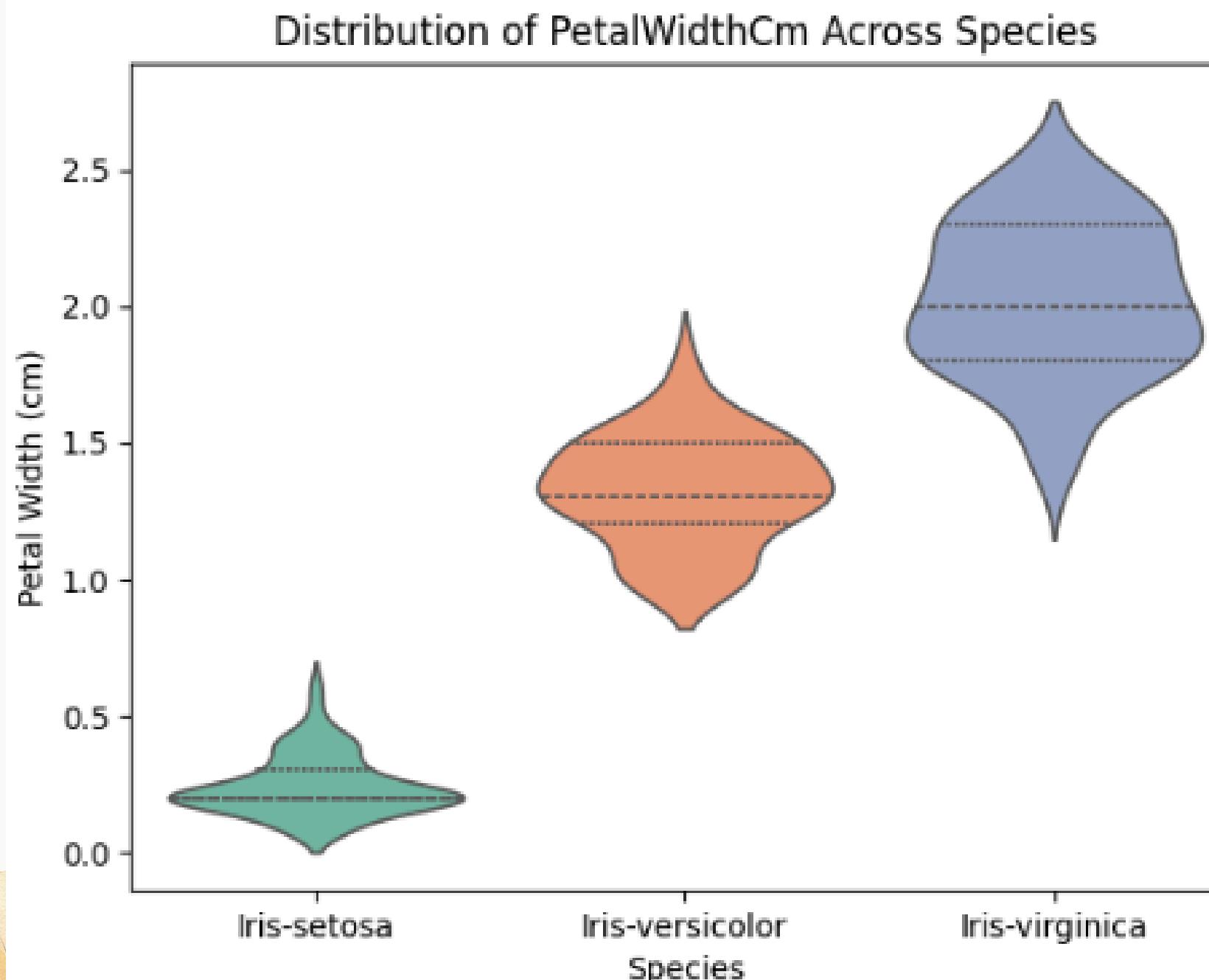
Q4. WHAT INSIGHTS CAN I GAIN BY PLOTTING A HISTOGRAM OF SEPALLENGTHCM FOR EACH SPECIES?



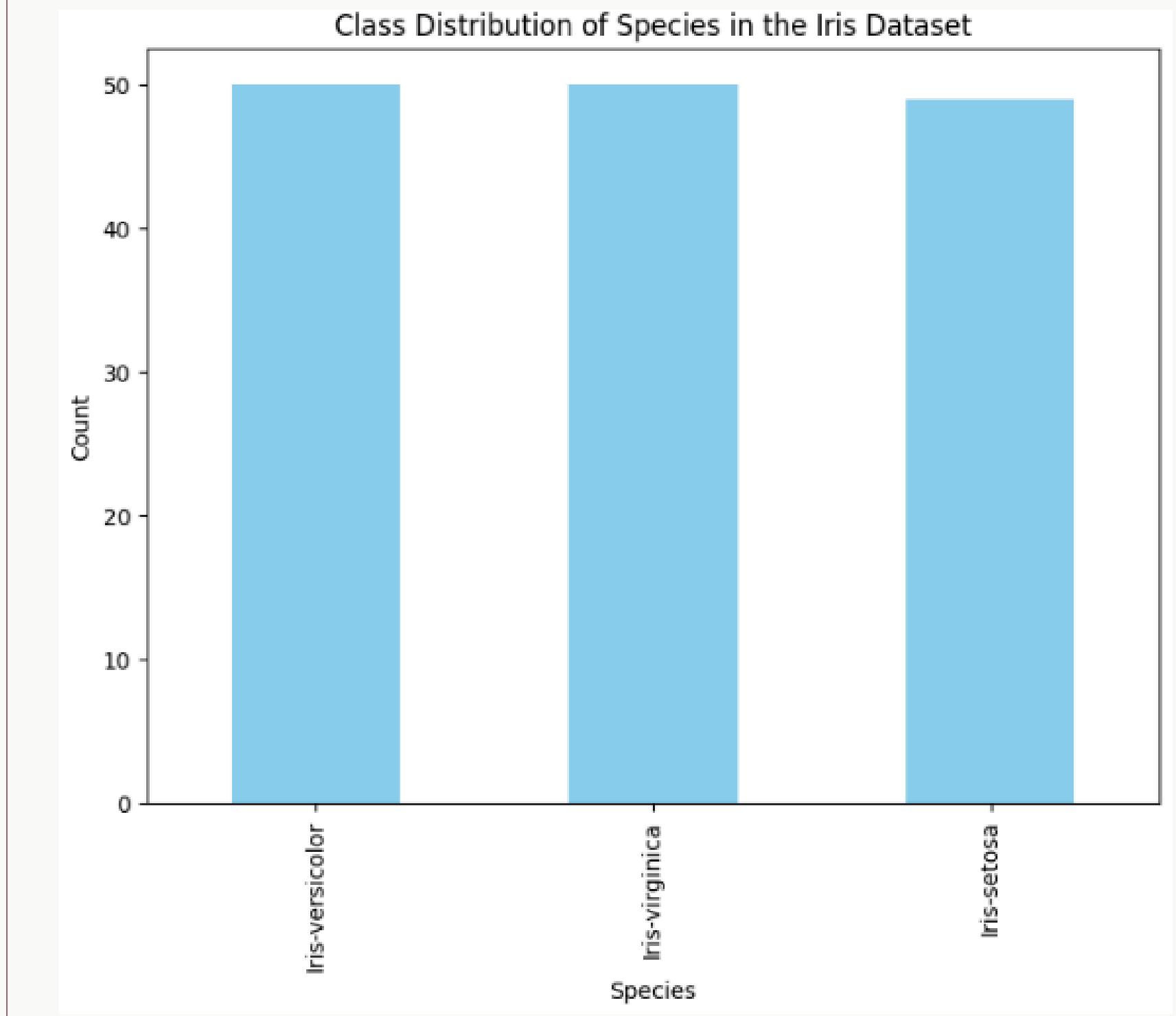
Q5. CREATE A HEATMAP TO VISUALIZE THE CORRELATION BETWEEN THE FEATURES IN THE IRIS DATASET?



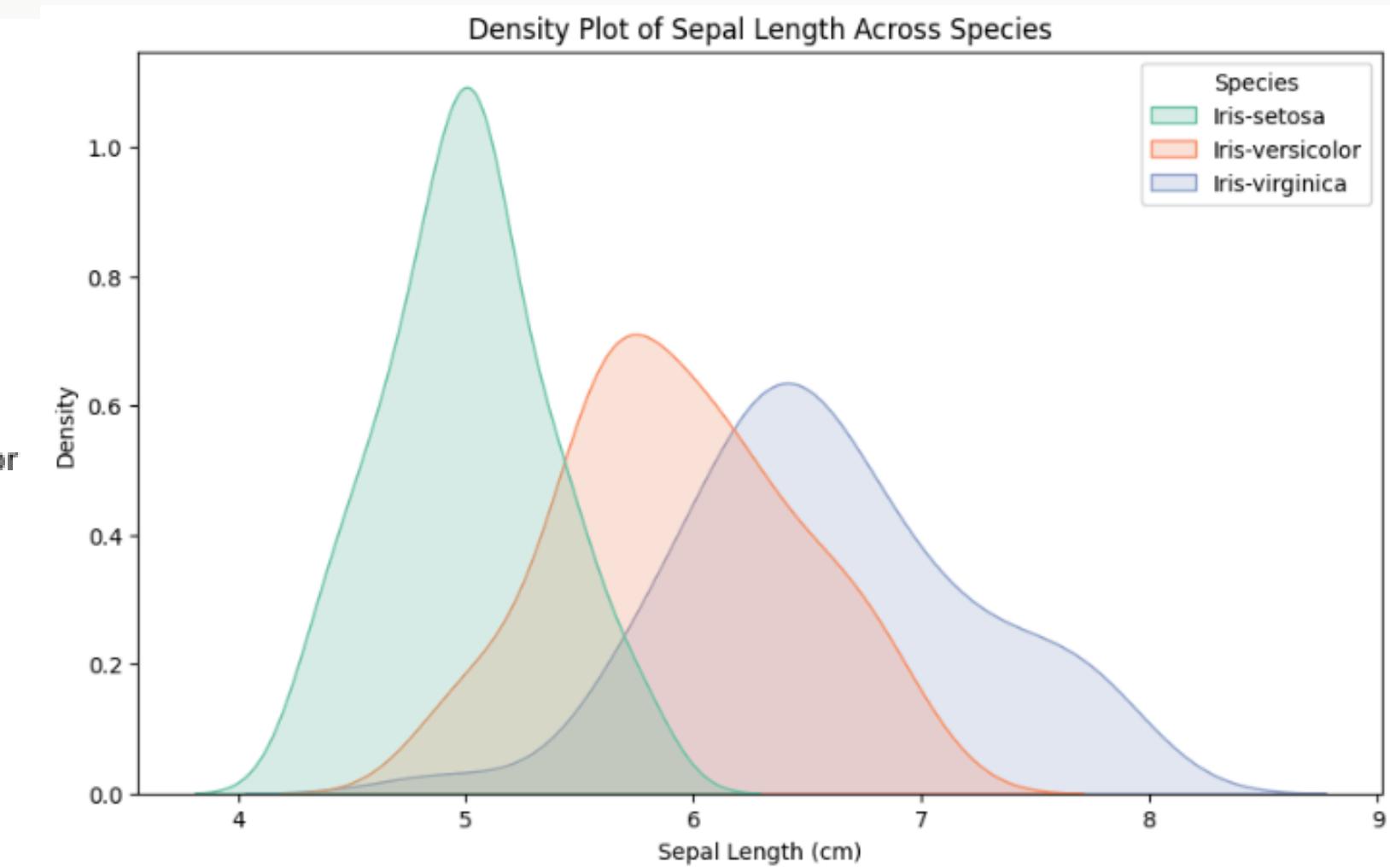
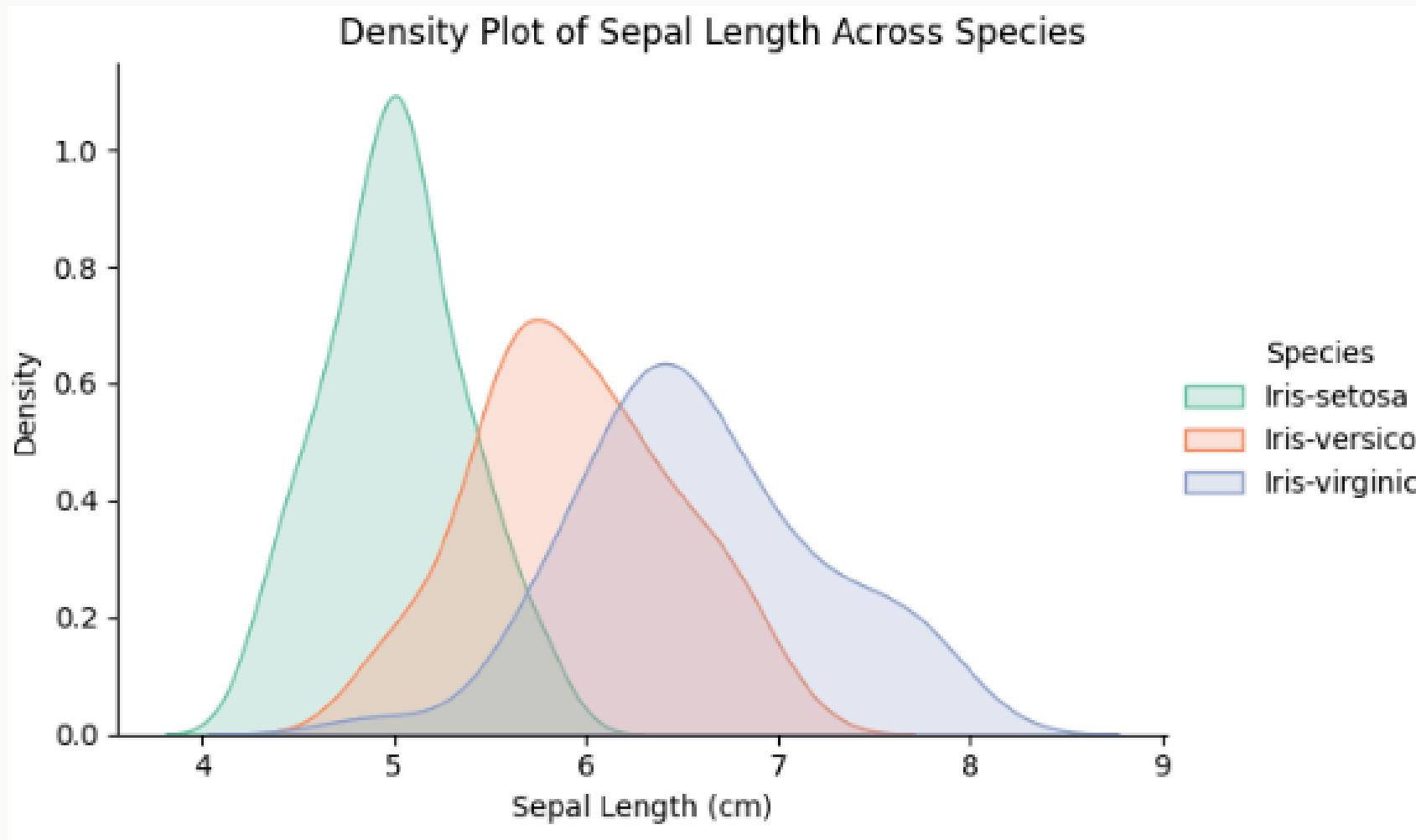
Q6. WHAT IS THE MOST EFFECTIVE WAY TO USE A VIOLIN PLOT TO COMPARE THE DISTRIBUTION OF PETALWIDTHCM ACROSS SPECIES?



Q7. HOW CAN I VISUALIZE THE CLASS DISTRIBUTION (SPECIES) IN THE IRIS DATASET USING A BAR CHART?



Q8 WHAT ARE SOME WAYS TO VISUALIZE THE DIFFERENCES IN FEATURE DISTRIBUTIONS BETWEEN THE THREE SPECIES USING DENSITY PLOTS?





THANK YOU

<https://github.com/Aatif560>

<https://aatif560.github.io/patelaatifportfolio.com/>