DAVL EXP – 1 OUTPUTS YAS TE AIDS – 70
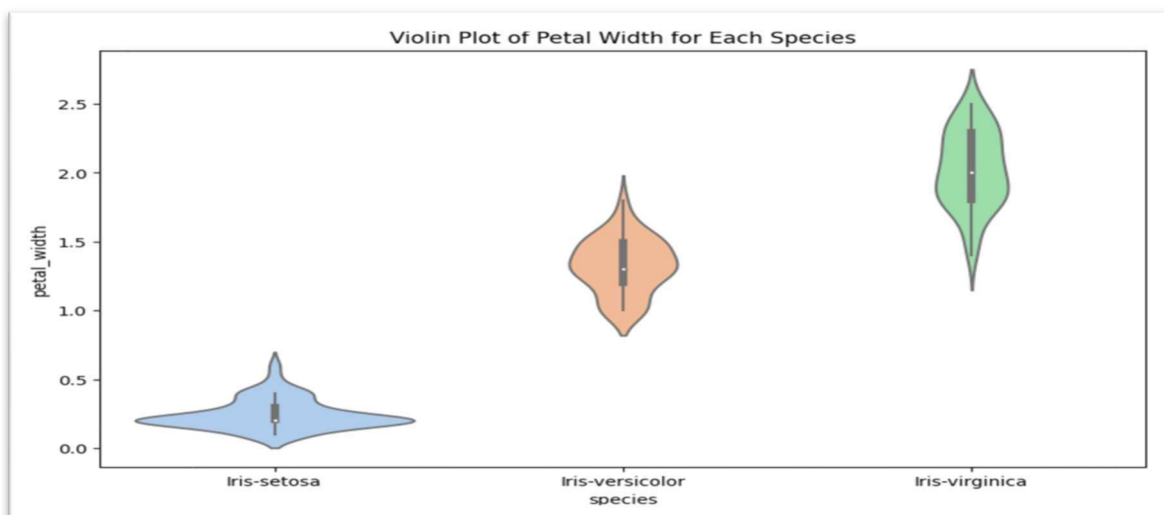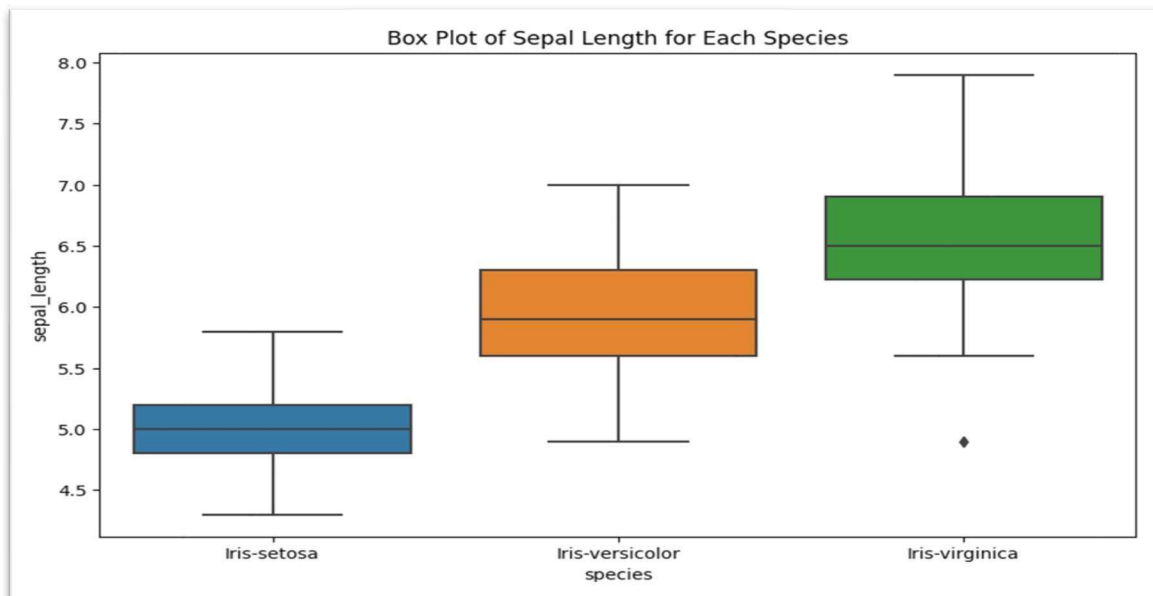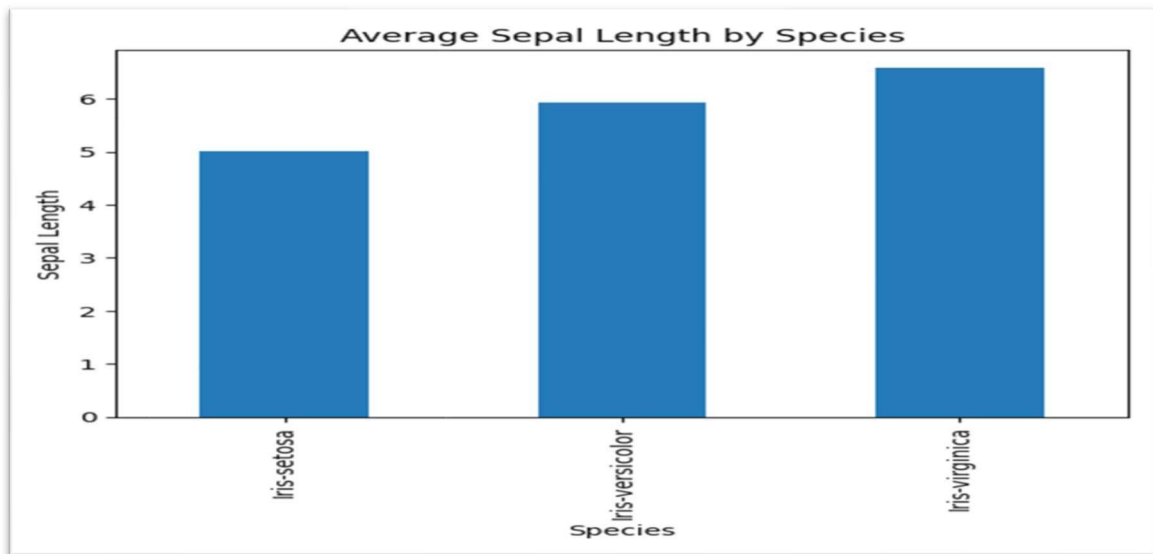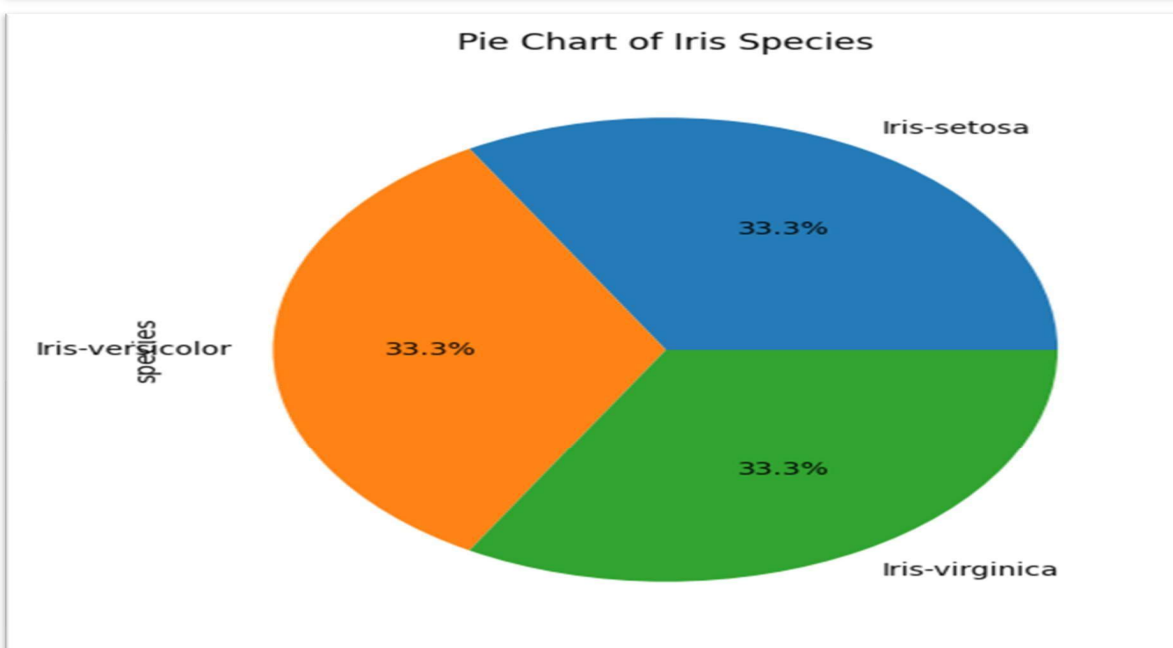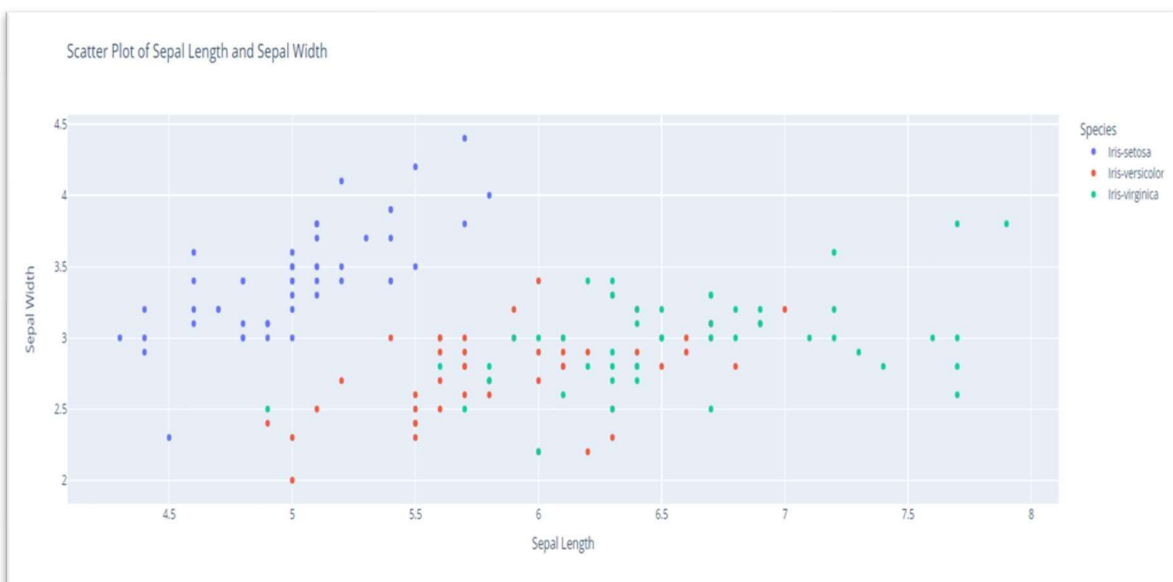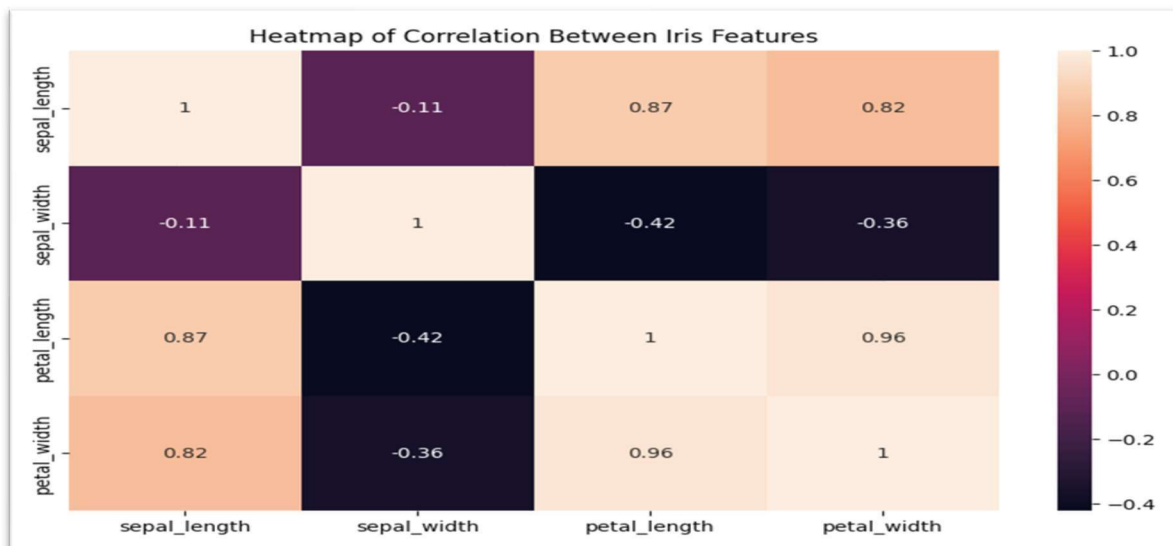
Average Sepal Length by Species

Box Plot of Sepal Length for Each Species

Violin Plot of Petal Width for Each Species

Heatmap of Correlation Between Iris Features

Scatter Plot of Sepal Length and Sepal Width

Pie Chart of Iris Species

RStudio — Untitled1

```r
# Install and load ggplot2
install.packages("ggplot2")
library(ggplot2)

# Create a sample data frame
data <- data.frame(x = rnorm(100), y = rnorm(100))

# Scatter plot
print(ggplot(data, aes(x = x, y = y)) +
        geom_point() +
        ggtitle("Scatter Plot"))
```

Console:

```
trying URL 'https://cran.rstudio.com/src/contrib/withr_3.0.0.tar.gz'
Content type 'application/x-gzip' length 107677 bytes (105 KB)
downloaded 105 KB

* installing *source* package 'withr' ...
** package 'withr' successfully unpacked and MD5 sums checked
** using staged installation
** R
** inst
** byte-compile and prepare package for lazy loading
** help
*** installing help indices
*** copying figures
** building package indices
** installing vignettes
** testing if installed package can be loaded from temporary location
** testing if installed package can be loaded from final location
** testing if installed package keeps a record of temporary installation path
* DONE (withr)

The downloaded source packages are in
        'C:\Users\Admin\AppData\Local\Temp\Rtmpc5okJ7\downloaded_packages'
> library(ggplot2)
> # Create a sample data frame
> data <- data.frame(x = rnorm(100), y = rnorm(100))
```

Scatter Plot

R Projects — RStudio — Barchart.R

```r
# Create a sample data frame
data <- data.frame(category = c("A", "B", "C", "D"),
                   value = c(3, 8, 5, 12))

# Bar chart
print(ggplot(data, aes(x = category, y = value)) +
        geom_bar(stat = "identity", fill = "skyblue") +
        ggtitle("Bar Chart"))
```

History:

```
install.packages(c("cluster", "foreign", "lattice", "MASS", "Matrix", "mgcv", "nlme"...
source("~/.active-rstudio-document")
source("~/.active-rstudio-document")
source("~/.active-rstudio-document")
source("~/.active-rstudio-document")
```

Console:

```
package 'rpart' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
        C:\Users\Admin\AppData\Local\Temp\RtmpsHxpkC\downloaded_packages

>
> source("~/.active-rstudio-document")
WARNING: Rtools is required to build R packages but is not currently installed. Please download and
install the appropriate version of Rtools before proceeding:

https://cran.rstudio.com/bin/windows/Rtools/
trying URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/ggplot2_3.4.4.zip'
Content type 'application/zip' length 4297345 bytes (4.1 MB)
downloaded 4.1 MB

package 'ggplot2' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
        C:\Users\Admin\AppData\Local\Temp\RtmpsHxpkC\downloaded_packages
> source("~/.active-rstudio-document")
>
> source("~/.active-rstudio-document")
>
> source("~/.active-rstudio-document")
> |
```

Bar Chart

R Projects — RStudio — boxplot.R

```r
# Create a sample data frame
data <- data.frame(category = rep(c("A", "B", "C"), each = 30),
                   value = rnorm(90))

# Boxplot
print(ggplot(data, aes(x = category, y = value)) +
        geom_boxplot(fill = "lightgreen") +
        ggtitle("Boxplot"))
```

History:

```
install.packages(c("cluster", "foreign", "lattice", "MASS", "Matrix", "mgcv", "nlme"...
source("~/.active-rstudio-document")
source("~/.active-rstudio-document")
source("~/.active-rstudio-document")
source("~/R Projects/lineplot.R")
source("~/R Projects/boxplot.R")
```

Console:

```
The downloaded binary packages are in
        C:\Users\Admin\AppData\Local\Temp\RtmpsHxpkC\downloaded_packages
>
> source("~/.active-rstudio-document")
WARNING: Rtools is required to build R packages but is not currently installed. Please download and
install the appropriate version of Rtools before proceeding:

https://cran.rstudio.com/bin/windows/Rtools/
trying URL 'https://cran.rstudio.com/bin/windows/contrib/4.3/ggplot2_3.4.4.zip'
Content type 'application/zip' length 4297345 bytes (4.1 MB)
downloaded 4.1 MB

package 'ggplot2' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
        C:\Users\Admin\AppData\Local\Temp\RtmpsHxpkC\downloaded_packages
> source("~/.active-rstudio-document")
>
> source("~/.active-rstudio-document")
>
> source("~/.active-rstudio-document")
> source("~/R Projects/lineplot.R")
> source("~/R Projects/boxplot.R")
> |
```

Boxplot