

MVLU COLLEGE

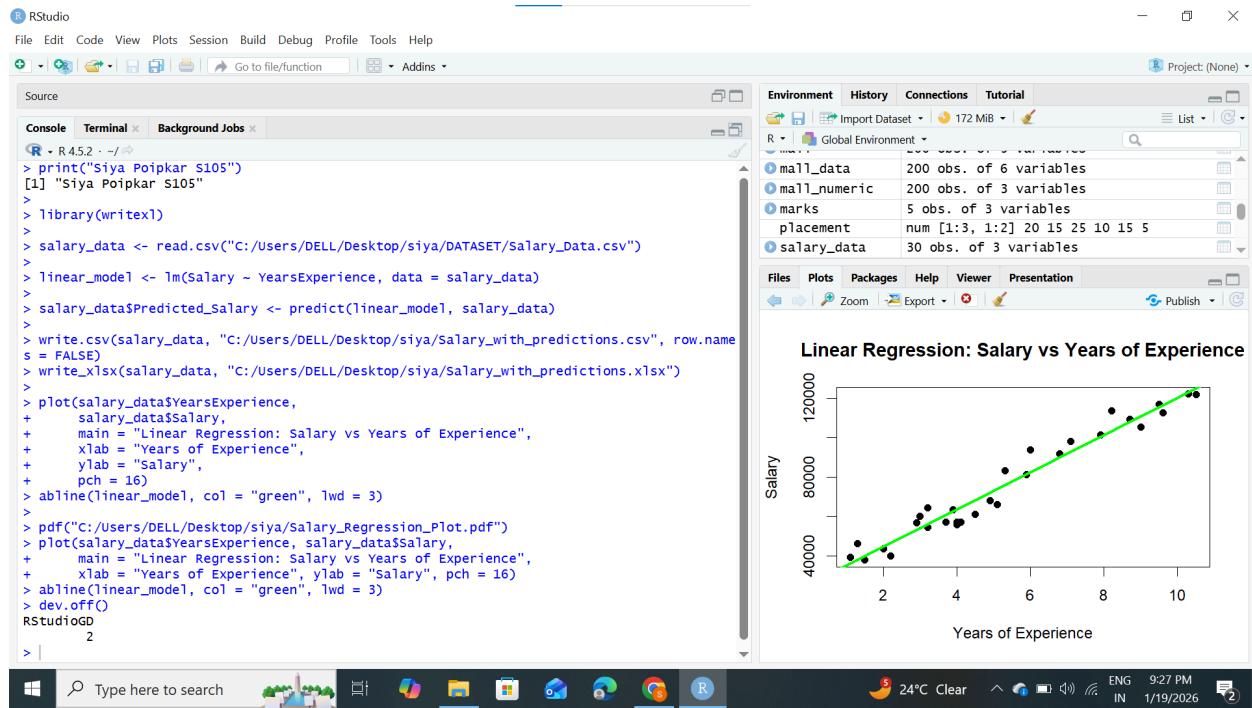
PRACTICAL NO. 13 TO 15

AIM:13 Performing linear regression analysis using lm() (R).

```

print("Siya Poipkar S105")
library(writexl)
salary_data <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/Salary_Data.csv")
linear_model <- lm(Salary ~ YearsExperience, data = salary_data)
salary_data$Predicted_Salary <- predict(linear_model, salary_data)
write.csv(salary_data, "C:/Users/DELL/Desktop/siya/Salary_with_predictions.csv", row.names =
FALSE)
write_xlsx(salary_data, "C:/Users/DELL/Desktop/siya/Salary_with_predictions.xlsx")
plot(salary_data$YearsExperience,
     salary_data$Salary,
     main = "Linear Regression: Salary vs Years of Experience",
     xlab = "Years of Experience",
     ylab = "Salary",
     pch = 16)
abline(linear_model, col = "green", lwd = 3)
pdf("C:/Users/DELL/Desktop/siya/Salary_Regression_Plot.pdf")
plot(salary_data$YearsExperience, salary_data$Salary,
     main = "Linear Regression: Salary vs Years of Experience",
     xlab = "Years of Experience", ylab = "Salary", pch = 16)
abline(linear_model, col = "green", lwd = 3)
dev.off()

```



MVLU COLLEGE
PRACTICAL NO. 13 TO 15

AIM:14 Performing logistic regression using `glm()` (R).

```
print ("Siya Poipkar S105")
diabetes_data <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/diabetes-data.csv")
str(diabetes_data)
names(diabetes_data)
logistic_model <- glm(Outcome ~ Glucose,
                      family = binomial,
                      data = diabetes_data)

summary(logistic_model)

plot(diabetes_data$Glucose,
     diabetes_data$Outcome,
     xlab = "Glucose Level",
     ylab = "Diabetes Outcome (0 = No, 1 = Yes)",
     main = "Logistic Regression: Glucose vs Diabetes",
     pch = 16)
x_values <- seq(min(diabetes_data$Glucose),
                 max(diabetes_data$Glucose),
                 length.out = 100)

y_values <- predict(logistic_model,
                     newdata = data.frame(Glucose = x_values),
                     type = "response")

lines(x_values, y_values, col = "purple", lwd = 3)
```

MVLU COLLEGE

PRACTICAL NO. 13 TO 15

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

Console Terminal Background Jobs

```
> print ("Siya Poipkar S105")
[1] "Siya Poipkar S105"
> diabetes_data <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/diabetes-data.csv")
> str(diabetes_data)
'data.frame': 768 obs. of 9 variables:
 $ Pregnancies : int 6 1 8 1 0 5 3 10 2 8 ...
 $ Glucose : int 148 85 183 89 137 116 78 115 197 125 ...
 $ BloodPressure : int 72 66 64 66 40 74 50 0 70 96 ...
 $ SkinThickness : int 35 29 0 23 35 0 32 0 45 0 ...
 $ Insulin : int 0 0 0 94 168 0 88 0 543 0 ...
 $ BMI : num 33.6 26.6 23.3 28.1 43.1 25.6 31 35.3 30.5 0 ...
 $ DiabetesPedigreeFunction: num 0.627 0.351 0.672 0.167 2.288 ...
 $ Age : int 50 31 32 21 33 30 26 29 53 54 ...
 $ Outcome : int 1 0 1 0 1 0 1 0 1 1 ...
> names(diabetes_data)
[1] "Pregnancies"          "Glucose"              "BloodPressure"
[4] "SkinThickness"        "Insulin"              "BMI"
[7] "DiabetesPedigreeFunction" "Age"                  "Outcome"
> Logistic_model <- glm(Outcome ~ Glucose,
+                         family = binomial,
+                         data = diabetes_data)
>
> summary(Logistic_model)

Call:
glm(formula = Outcome ~ Glucose, family = binomial, data = diabetes_data)

Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept) -5.350080  0.420827 -12.71 <2e-16 ***
Glucose     0.037873  0.003252  11.65 <2e-16 ***
---
Signif. codes:  0 '****' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Dispersion parameter for binomial family taken to be 1

Null deviance: 993.48 on 767 degrees of freedom
Residual deviance: 808.72 on 766 degrees of freedom
AIC: 812.72

Number of Fisher Scoring iterations: 4

> plot(diabetes_data$Glucose,
+       diabetes_data$Outcome,
+       xlab = "Glucose Level",
+       ylab = "Diabetes Outcome (0 = No, 1 = Yes)",
+       main = "Logistic Regression: Glucose vs Diabetes",
+       pch = 16)
> x_values <- seq(min(diabetes_data$Glucose),
+                   max(diabetes_data$Glucose),
+                   length.out = 100)
>
> y_values <- predict(Logistic_model,
+                      newdata = data.frame(Glucose = x_values),
+                      type = "response")
>
> lines(x_values, y_values, col = "purple", lwd = 3)
```

Environment History Connections Tutorial

R Global Environment

gender Factor w/ 2 levels "Female","Male": 2 ...
product_counts 'table' int[0:1d]
score num [1:8] 60 65 70 75 80 85 68 72
study_hours Factor w/ 2 levels "High","Low": 2 1 2 ...
x_values num [1:100] 0 2.01 4.02 6.03 8.04 ...
y_values Named num [1:100] 0.00473 0.0051 0.0055...

Files Plots Packages Help Viewer Presentation

Logistic Regression: Glucose vs Diabetes

Diabetes Outcome (0 = No, 1 = Yes)

Glucose Level

Windows Taskbar: Type here to search, RStudio icon, File Explorer, Task View, Start button, Google Chrome, R icon, System tray: 24°C, ENG, IN, 10:24 PM, 1/20/2026, 2 notifications.

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

Console Terminal Background Jobs

```
Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept) -5.350080  0.420827 -12.71 <2e-16 ***
Glucose     0.037873  0.003252  11.65 <2e-16 ***
---
Signif. codes:  0 '****' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Dispersion parameter for binomial family taken to be 1

Null deviance: 993.48 on 767 degrees of freedom
Residual deviance: 808.72 on 766 degrees of freedom
AIC: 812.72

Number of Fisher Scoring iterations: 4
```

Environment History Connections Tutorial

R Global Environment

gender Factor w/ 2 levels "Female","Male": 2 ...
product_counts 'table' int[0:1d]
score num [1:8] 60 65 70 75 80 85 68 72
study_hours Factor w/ 2 levels "High","Low": 2 1 2 ...
x_values num [1:100] 0 2.01 4.02 6.03 8.04 ...
y_values Named num [1:100] 0.00473 0.0051 0.0055...

Files Plots Packages Help Viewer Presentation

Logistic Regression: Glucose vs Diabetes

Diabetes Outcome (0 = No, 1 = Yes)

Glucose Level

Windows Taskbar: Type here to search, RStudio icon, File Explorer, Task View, Start button, Google Chrome, R icon, System tray: 24°C, ENG, IN, 10:24 PM, 1/20/2026, 2 notifications.

MVLU COLLEGE
PRACTICAL NO. 13 TO 15

AIM:15 Exporting results into external files (Excel, CSV, PDF) using write.csv() and writexl (R).

```
print("Siya Poipkar S105")

install.packages("writexl")
library(writexl)

salary_data <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/Salary_Data.csv")

linear_model <- lm(Salary ~ YearsExperience, data = salary_data)

salary_data$Predicted_Salary <- predict(linear_model, salary_data)

write.csv(salary_data,
          "C:/Users/DELL/Desktop/siya/Salary_with_predictions.csv",
          row.names = FALSE)

write_xlsx(salary_data,
           "C:/Users/DELL/Desktop/siya/Salary_with_predictions.xlsx")

pdf("C:/Users/DELL/Desktop/siya/Salary_Regression_Plot.pdf")

plot(salary_data$YearsExperience,
      salary_data$Salary,
      main = "Linear Regression: Salary vs Years of Experience",
      xlab = "Years of Experience",
      ylab = "Salary",
      pch = 16,
      col = "blue")

abline(linear_model, col = "green", lwd = 3)

dev.off()

print("Siya Poipkar S105")

diabetes_data <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/diabetes-data.csv")

str(diabetes_data)
names(diabetes_data)

logistic_model <- glm(Outcome ~ Glucose,
                      family = binomial,
```

MVLU COLLEGE
PRACTICAL NO. 13 TO 15

```
data = diabetes_data

summary(logistic_model)

diabetes_data$Predicted_Prob <- predict(logistic_model,
                                         diabetes_data,
                                         type = "response")

write.csv(diabetes_data,
          "C:/Users/DELL/Desktop/siya/Diabetes_with_predictions.csv",
          row.names = FALSE)

write_xlsx(diabetes_data,
           "C:/Users/DELL/Desktop/siya/Diabetes_with_predictions.xlsx")

x_values <- seq(min(diabetes_data$Glucose),
                  max(diabetes_data$Glucose),
                  length.out = 100)

y_values <- predict(logistic_model,
                     newdata = data.frame(Glucose = x_values),
                     type = "response")

pdf("C:/Users/DELL/Desktop/siya/Diabetes_Logistic_Regression_Plot.pdf")

plot(diabetes_data$Glucose,
      diabetes_data$Outcome,
      xlab = "Glucose Level",
      ylab = "Diabetes Outcome (0 = No, 1 = Yes)",
      main = "Logistic Regression: Glucose vs Diabetes",
      pch = 16,
      col = "blue")

lines(x_values, y_values, col = "purple", lwd = 3)

abline(h = 0.5, col = "red", lty = 2)
```

MVLU COLLEGE

PRACTICAL NO. 13 TO 15

dev.off()

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source Console Terminal Background Jobs
R 4.5.2 - ~/
> print("Siya Poipkar S105")
[1] "Siya Poipkar S105"
>
> install.packages("writexl")
Restarting R session...
> install.packages("writexl")
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/>
Installing package into 'C:/Users/DELL/AppData/Local/R/win-library/4.5'
(as 'lib' is unspecified)
trying URL 'https://cran.rstudio.com/bin/windows/contrib/4.5/writexl_1.5.4.zip'
Content type 'application/zip' length 198391 bytes (193 KB)
downloaded 193 KB
package 'writexl' successfully unpacked and MD5 sums checked
The downloaded binary packages are in
C:/Users/DELL/AppData/Local/Temp/RtmpcUGGIt/downloaded_packages
> print("Siya Poipkar S105")
[1] "Siya Poipkar S105"
>
> install.packages("writexl")
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/>

Environment History Connections Tutorial
Import Dataset 200 MB List
R Global Environment
logistic_model Large glm (30 elements, 596.9 kB)
mall 200 obs. of 5 variables
mall_data 200 obs. of 6 variables
mall_numeric 200 obs. of 3 variables
marks 5 obs. of 3 variables
placement num [1:3 1:21 20:15 25:10:15 5]
Files Plots Packages Help Viewer Presentation
Logistic Regression: Glucose vs Diabetes
Glucose Level Diabetes Outcome (0 = No, 1 = Yes)

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source Console Terminal Background Jobs
R 4.5.2 - ~/
Content type 'application/zip' length 198391 bytes (193 KB)
downloaded 193 KB
package 'writexl' successfully unpacked and MD5 sums checked
The downloaded binary packages are in
C:/Users/DELL/AppData/Local/Temp/RtmpcUGGIt/downloaded_packages
> library(writexl)
>
> salary_data <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/Salary_Data.csv")
>
> linear_model <- lm(Salary ~ YearsExperience, data = salary_data)
>
> salary_data\$Predicted_Salary <- predict(linear_model, salary_data)
>
> write.csv(salary_data,
+ "C:/Users/DELL/Desktop/siya/Salary_with_predictions.csv",
+ row.names = FALSE)
>
> write_xlsx(salary_data,
+ "C:/Users/DELL/Desktop/siya/Salary_with_predictions.xlsx")
>
> pdf("C:/Users/DELL/Desktop/siya/Salary_Regression_Plot.pdf")
>
> plot(salary_data\$YearsExperience,
+ salary_data\$Salary,
+ main = "Linear Regression: Salary vs Years of Experience",
+ xlab = "Years of Experience",
+ ylab = "Salary",
+ pch = 16,
+ col = "blue")
Environment History Connections Tutorial
Import Dataset 200 MB List
R Global Environment
logistic_model Large glm (30 elements, 596.9 kB)
mall 200 obs. of 5 variables
mall_data 200 obs. of 6 variables
mall_numeric 200 obs. of 3 variables
marks 5 obs. of 3 variables
placement num [1:3 1:21 20:15 25:10:15 5]
Files Plots Packages Help Viewer Presentation
Logistic Regression: Glucose vs Diabetes
Glucose Level Diabetes Outcome (0 = No, 1 = Yes)

MVLU COLLEGE

PRACTICAL NO. 13 TO 15

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

```

R - R 4.5.2 · ~/Documents/RStudioProjects/Untitled Project (None) ·
Console Terminal Background Jobs
+ col = "blue")
> abline(linear_model, col = "green", lwd = 3)
> dev.off()
RStudioGD
2
>
> print("Siya Poipkar S105")
[1] "Siya Poipkar S105"
>
> diabetes_data <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/diabetes-data.csv")
>
> str(diabetes_data)
'data.frame': 768 obs. of 9 variables:
 $ Pregnancies : int 6 1 8 1 0 5 3 10 2 8 ...
 $ Glucose      : int 148 85 183 89 137 116 78 115 197 125 ...
 $ BloodPressure: int 72 66 64 66 40 74 50 0 70 96 ...
 $ SkinThickness: int 35 29 0 23 35 0 32 0 45 0 ...
 $ Insulin       : int 0 0 0 94 168 0 88 0 543 0 ...
 $ BMI          : num 33.6 26.6 23.3 28.1 43.1 25.6 31 35.3 30.5 0 ...
 $ DiabetesPedigreeFunction: num 0.627 0.351 0.672 0.167 2.288 ...
 $ Age          : int 50 31 32 21 33 30 26 29 53 54 ...
 $ Outcome       : int 1 0 1 0 1 0 1 0 1 1 ...
> names(diabetes_data)
[1] "Pregnancies"           "Glucose"                 "BloodPressure"
[4] "SkinThickness"          "Insulin"                 "BMI"
[7] "DiabetesPedigreeFunction" "Age"                    "Outcome"
>
> logistic_model <- glm(Outcome ~ Glucose,
+                         family = binomial,
+                         data = diabetes_data)

```

Type here to search

Environment History Connections Tutorial

R - Global Environment

- logistic_model Large glm (30 elements, 596.9 kB)
- mall 200 obs. of 5 variables
- mall_data 200 obs. of 6 variables
- mall_numeric 200 obs. of 3 variables
- marks 5 obs. of 3 variables
- placement num 1..3 1..21 20..15 25..10..15 5

Files Plots Packages Help Viewer Presentation

Logistic Regression: Glucose vs Diabetes

Glucose Level

Diabetes Outcome (0 = No, 1 = Yes)

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

```

R - R 4.5.2 · ~/Documents/RStudioProjects/Untitled Project (None) ·
Console Terminal Background Jobs
+ family = binomial,
+ data = diabetes_data)
>
> summary(logistic_model)

Call:
glm(formula = Outcome ~ Glucose, family = binomial, data = diabetes_data)

Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept) -5.350080  0.420827 -12.71 <2e-16 ***
Glucose     0.037873  0.003252  11.65 <2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Dispersion parameter for binomial family taken to be 1

Null deviance: 993.48 on 767 degrees of freedom
Residual deviance: 808.72 on 766 degrees of freedom
AIC: 812.72

Number of Fisher Scoring iterations: 4

>
> diabetes_data$Predicted_Prob <- predict(logistic_model,
+                                             diabetes_data,
+                                             type = "response")
>
> write.csv(diabetes_data,
+             "C:/Users/DELL/Desktop/siya/Diabetes_with_predictions.csv",
+             row.names = FALSE)
>
```

Type here to search

Environment History Connections Tutorial

R - Global Environment

- logistic_model Large glm (30 elements, 596.9 kB)
- mall 200 obs. of 5 variables
- mall_data 200 obs. of 6 variables
- mall_numeric 200 obs. of 3 variables
- marks 5 obs. of 3 variables
- placement num 1..3 1..21 20..15 25..10..15 5

Files Plots Packages Help Viewer Presentation

Logistic Regression: Glucose vs Diabetes

Glucose Level

Diabetes Outcome (0 = No, 1 = Yes)

MVLU COLLEGE

PRACTICAL NO. 13 TO 15

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

```

Console Terminal Background Jobs
+ ~ / R 4.5.2
+   C:/users/DELL/Desktop/siya/diabetes_with_predictions.csv ,
+   row.names = FALSE)
> write_xlsx(diabetes_data,
+             "C:/Users/DELL/Desktop/siya/Diabetes_with_predictions.xlsx")
>
> x_values <- seq(min(diabetes_data$Glucose),
+                   max(diabetes_data$Glucose),
+                   length.out = 100)
>
> y_values <- predict(logistic_model,
+                       newdata = data.frame(Glucose = x_values),
+                       type = "response")
>
> pdf("C:/Users/DELL/Desktop/siya/Diabetes_Logistic_Regression_Plot.pdf")
>
> plot(diabetes_data$Glucose,
+       diabetes_data$Outcome,
+       xlab = "Glucose Level",
+       ylab = "Diabetes Outcome (0 = No, 1 = Yes)",
+       main = "Logistic Regression: Glucose vs Diabetes",
+       pch = 16,
+       col = "blue")
>
> lines(x_values, y_values, col = "purple", lwd = 3)
>
> abline(h = 0.5, col = "red", lty = 2)
>
> dev.off()
RStudioGD
2
> |

```

Environment History Connections Tutorial

R Global Environment

- logistic_model Large glm (30 elements, 596.9 kB)
- mall 200 obs. of 5 variables
- mall_data 200 obs. of 6 variables
- mall_numeric 200 obs. of 3 variables
- marks 5 obs. of 3 variables
- placement num [1:3, 1:21, 20:15, 10:15, 5]

Files Plots Packages Help Viewer Presentation

Logistic Regression: Glucose vs Diabetes

Glucose Level

Diabetes Outcome (0 = No, 1 = Yes)

Salary_with_predictions - Excel

Sakshi Poipkar

File Home Insert Page Layout Formulas Data Review View Tell me what you want to do

YearsExp	Salary	Predicted_Salary
1.1	39343	36187.16
1.3	46205	38077.15
1.5	37731	39967.14
2	43525	44692.12
2.2	39891	46582.12
2.9	56642	53197.09
3	60150	54142.09
3.2	54445	56032.08
3.2	64445	56032.08
3.7	57189	60757.06
3.9	63218	62647.05
4	55794	63592.05
4	56957	63592.05
4.1	57081	64537.05
4.5	61111	68317.03
4.9	67938	72097.02
5.1	66029	73987.01
5.3	83088	75877
5.9	81363	81546.98
6	93940	82491.97

Ready Accessibility: Unavailable

MVLU COLLEGE

PRACTICAL NO. 13 TO 15

File		Home	Insert	Page Layout	Formulas	Data	Review	View	Help	Tell me what you want to do
Paste		Font	Clipboard	Font	Font	Font	Font	Font	Font	Font
General	\$ %	#,###.##	#,###.##	#,###.##	#,###.##	#,###.##	#,###.##	#,###.##	#,###.##	#,###.##
Conditional	Format as	Table	Styles	Cell Styles	Format	Cells				
Formatting	Table	Styles	Format	Cells						
Sort & Filter	Select									Add-ins
Editing										

BACK UP THIS DOCUMENT Allow Copilot on this and other files backing using OneDrive (License required). Open OneDrive

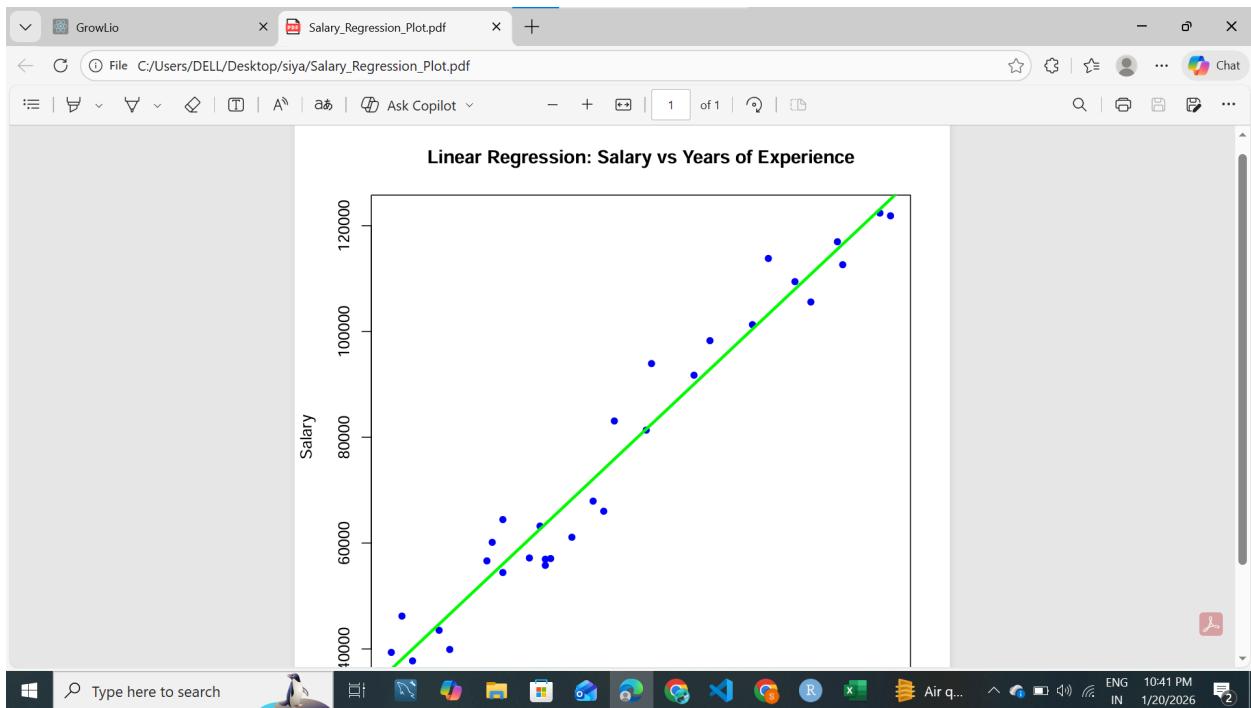
A1 YearsExperience

YearsExperience	Salary	Predicted_Salary
1.1	39343	36187.16
1.3	46205	38077.15
1.5	37731	39967.14
2	43525	44692.12
2.2	39891	46582.12
2.9	56642	53197.09
3	60150	54142.09
3.2	54445	56032.08
3.2	64445	56032.08
3.7	57189	60757.06
3.9	63218	62647.05
4	55794	63592.05
4	56957	63592.05
4.1	57081	64537.05
4.5	61111	68317.03
4.9	67938	72097.02
5.1	66029	73987.01
5.3	83088	75877
5.9	81363	81546.98

Sheet1

Ready Accessibility: Good to go

Type here to search



MVLU COLLEGE

PRACTICAL NO. 13 TO 15

The screenshot shows a Microsoft Excel spreadsheet titled "Diabetes_with_predictions.csv". The data consists of 20 rows and 11 columns. The columns are labeled: Pregnancies, Glucose, BloodPres, SkinThickr, Insulin, BMI, DiabetesP, Age, Outcome, Predicted_Prob, and a header row. The "Outcome" column contains binary values (0 or 1) representing whether a patient has diabetes. The "Predicted_Prob" column shows the probability of having diabetes based on the input features. The "Age" column ranges from 21 to 81. The "Predicted_Prob" column values range from approximately 0.10 to 0.56. The "Outcome" column values are mostly 0 (representing non-diabetics) with some 1's (representing diabetics). The "Predicted_Prob" values are higher for rows where the "Outcome" is 1.

	Pregnancies	Glucose	BloodPres	SkinThickr	Insulin	BMI	DiabetesP	Age	Outcome	Predicted_Prob
1	6	148	72	35	0	33.6	0.627	50	1	0.563439
2	1	85	66	29	0	26.6	0.351	31	0	0.106132
3	8	183	64	0	0	23.3	0.672	32	1	0.829302
4	1	89	66	23	94	28.1	0.167	21	0	0.121385
5	0	137	40	35	168	43.1	2.288	33	1	0.459719
6	5	116	74	0	0	25.6	0.201	30	0	0.277518
7	3	78	50	32	88	31	0.248	26	1	0.083479
8	10	115	0	0	0	35.3	0.134	29	0	0.269988
9	2	197	70	45	543	30.5	0.158	53	1	0.891959
10	8	125	96	0	0	0	0.232	54	1	0.350703
11	4	110	92	0	0	37.6	0.191	30	0	0.234325
12	10	168	74	0	0	38	0.537	34	1	0.733527
13	10	139	80	0	0	27.1	1.441	57	0	0.478581
14	1	189	60	23	846	30.1	0.398	59	1	0.859111
15	5	166	72	19	175	25.8	0.587	51	1	0.718462
16	7	100	0	0	0	30	0.484	32	1	0.173249
17	0	118	84	47	230	45.8	0.551	31	1	0.292958
18	7	107	74	0	0	29.6	0.254	31	1	0.214558
19	1	103	30	38	83	43.3	0.183	33	0	0.190131
20										

MVLU COLLEGE

PRACTICAL NO. 13 TO 15

Diabetes_with_predictions.xlsx - Excel

Sakshi Poipkar

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Font Alignment Number Conditional Formatting Styles Cell Styles Cells Editing Add-ins

BACK UP THIS DOCUMENT Allow Copilot on this and other files backing using OneDrive (License required). Open OneDrive

A1 Pregnancies

Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI	SerumPedicree	Age	Outcome	Predicted_Prob
6	148	72	35	0	33.6	0.627	50	1	0.563439
1	85	66	29	0	26.6	0.351	31	0	0.106132
8	183	64	0	0	23.3	0.672	32	1	0.829302
1	89	66	23	94	28.1	0.167	21	0	0.121385
0	137	40	35	168	43.1	2.288	33	1	0.459719
5	116	74	0	0	25.6	0.201	30	0	0.277518
3	78	50	32	88	31	0.248	26	1	0.083479
10	115	0	0	0	35.3	0.134	29	0	0.269988
2	197	70	45	543	30.5	0.158	53	1	0.891959
8	125	96	0	0	0	0.232	54	1	0.350703
4	110	92	0	0	37.6	0.191	30	0	0.234325
10	168	74	0	0	38	0.537	34	1	0.733527
10	139	80	0	0	27.1	1.441	57	0	0.478581
1	189	60	23	846	30.1	0.398	59	1	0.859111
5	166	72	19	175	25.8	0.587	51	1	0.718462
7	100	0	0	0	30	0.484	32	1	0.173249
0	118	84	47	230	45.8	0.551	31	1	0.292958
7	107	74	0	0	29.6	0.254	31	1	0.214558
1	103	30	38	83	43.3	0.183	33	0	0.190131

