

Stock Market Prediction on NETFLIX

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#GROUP - 9

Abbas Ali Code for Linear Regression on the Data

LINEAR REGRESSION MODEL

```
# Load the required libraries
install.packages('dplyr')

## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)

library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

install.packages('caret')

## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)

library(caret)

## Loading required package: ggplot2

## Loading required package: lattice

# Assuming you have already loaded the data into a DataFrame called 'df'
# If not, you can load it using: df <- read.csv('your_data.csv')
df <- read.csv('NFLX-PRE.csv')
```

```

# Split the data into training and testing sets
set.seed(123) # for reproducibility
train_index <- createDataPartition(df$Close, p = 0.8, list = FALSE)
train_data <- df[train_index, ]
test_data <- df[-train_index, ]

# Create the linear regression model
model <- lm(Close ~ Open + High + Low + Adj_Close + Volume, data =
train_data)

# Print the model summary
summary(model)

##
## Call:
## lm(formula = Close ~ Open + High + Low + Adj_Close + Volume,
##     data = train_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.0049822 -0.0004571 -0.0000035  0.0005088  0.0045399
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  6.795e-04  6.400e-05  10.618  < 2e-16 ***
## Open        -4.521e-02  6.456e-03  -7.004  3.67e-12 ***
## High         6.778e-02  6.880e-03   9.853  < 2e-16 ***
## Low          3.236e-02  6.393e-03   5.062  4.63e-07 ***
## Adj_Close    9.402e-01  6.381e-03 147.348  < 2e-16 ***
## Volume       1.225e-12  3.109e-13   3.941  8.48e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.001332 on 1596 degrees of freedom
## Multiple R-squared:  1, Adjusted R-squared:  1
## F-statistic: 9.899e+06 on 5 and 1596 DF, p-value: < 2.2e-16

# Make predictions on the test data
predictions <- predict(model, newdata = test_data)

# Calculate the Mean Squared Error and R-squared for model evaluation
mse <- mean((test_data$Close - predictions)^2)
r_squared <- cor(test_data$Close, predictions)^2

cat("Mean Squared Error:", mse, "\n")

## Mean Squared Error: 1.736988e-06

cat("R-squared:", r_squared, "\n")

## R-squared: 0.9999673

```

```
# Now, let's predict the future 'Close' using the model
future_features <- data.frame(Open = c(200), High = c(220), Low = c(190),
Adj_Close = c(210), Volume = c(150000))
future_close <- predict(model, newdata = future_features)
cat("Predicted Future Close:", future_close, "\n")
```

```
## Predicted Future Close: 209.4572
```

```
output_df <- data.frame(Date = test_data$Date, Actual_Close =
test_data$Close, Predicted_Close = predictions)
print(output_df)
```

| ## | Date | Actual_Close | Predicted_Close |
|--------|------------|--------------|-----------------|
| ## 2 | 15-12-1980 | 0.15116344 | 0.15096144 |
| ## 4 | 17-12-1980 | 0.13837149 | 0.13820418 |
| ## 24 | 16-01-1981 | 0.18604700 | 0.18539341 |
| ## 26 | 20-01-1981 | 0.19418601 | 0.19349200 |
| ## 41 | 10-02-1981 | 0.15116344 | 0.15082079 |
| ## 43 | 12-02-1981 | 0.14069692 | 0.14037216 |
| ## 45 | 17-02-1981 | 0.14069692 | 0.14042184 |
| ## 51 | 25-02-1981 | 0.13255791 | 0.13235240 |
| ## 55 | 03-03-1981 | 0.14186172 | 0.14153215 |
| ## 57 | 05-03-1981 | 0.13837149 | 0.13805246 |
| ## 59 | 09-03-1981 | 0.11744261 | 0.11728907 |
| ## 61 | 11-03-1981 | 0.09883708 | 0.09886288 |
| ## 62 | 12-03-1981 | 0.10697609 | 0.10700363 |
| ## 64 | 16-03-1981 | 0.11279175 | 0.11282969 |
| ## 69 | 23-03-1981 | 0.14651258 | 0.14628668 |
| ## 70 | 24-03-1981 | 0.14534987 | 0.14500818 |
| ## 92 | 24-04-1981 | 0.16744146 | 0.16697595 |
| ## 116 | 29-05-1981 | 0.20581316 | 0.20512491 |
| ## 128 | 16-06-1981 | 0.19302329 | 0.19234783 |
| ## 131 | 19-06-1981 | 0.17907070 | 0.17848551 |
| ## 135 | 25-06-1981 | 0.17209233 | 0.17160611 |
| ## 155 | 24-07-1981 | 0.12093076 | 0.12081939 |
| ## 163 | 05-08-1981 | 0.13837149 | 0.13811970 |
| ## 185 | 04-09-1981 | 0.08720992 | 0.08727471 |
| ## 187 | 09-09-1981 | 0.08139634 | 0.08157608 |
| ## 189 | 11-09-1981 | 0.08023363 | 0.08035232 |
| ## 198 | 24-09-1981 | 0.05000094 | 0.05034148 |
| ## 207 | 07-10-1981 | 0.06395352 | 0.06434759 |
| ## 208 | 08-10-1981 | 0.06976710 | 0.07003216 |
| ## 214 | 16-10-1981 | 0.06744167 | 0.06767546 |
| ## 216 | 20-10-1981 | 0.08023363 | 0.08042700 |
| ## 217 | 21-10-1981 | 0.08023363 | 0.08047744 |
| ## 219 | 23-10-1981 | 0.07441796 | 0.07459267 |
| ## 226 | 03-11-1981 | 0.08139634 | 0.08152106 |
| ## 228 | 05-11-1981 | 0.06395352 | 0.06419806 |
| ## 230 | 09-11-1981 | 0.06744167 | 0.06770814 |
| ## 232 | 11-11-1981 | 0.07325525 | 0.07348903 |

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|--------|------------|------------|------------|
| ## 235 | 16-11-1981 | 0.06395352 | 0.06419707 |
| ## 238 | 19-11-1981 | 0.07325525 | 0.07350443 |
| ## 241 | 24-11-1981 | 0.06511624 | 0.06534953 |
| ## 249 | 07-12-1981 | 0.07558068 | 0.07583660 |
| ## 258 | 18-12-1981 | 0.11046632 | 0.11048538 |
| ## 261 | 23-12-1981 | 0.09999979 | 0.09998886 |
| ## 265 | 30-12-1981 | 0.10348794 | 0.10350913 |
| ## 266 | 31-12-1981 | 0.10348794 | 0.10353666 |
| ## 272 | 11-01-1982 | 0.07092982 | 0.07113547 |
| ## 276 | 15-01-1982 | 0.08372177 | 0.08398247 |
| ## 278 | 19-01-1982 | 0.08255906 | 0.08273303 |
| ## 300 | 19-02-1982 | 0.07209253 | 0.07226673 |
| ## 301 | 22-02-1982 | 0.06976710 | 0.06997431 |
| ## 303 | 24-02-1982 | 0.06860439 | 0.06888511 |
| ## 308 | 03-03-1982 | 0.06860439 | 0.06886760 |
| ## 309 | 04-03-1982 | 0.06511624 | 0.06536940 |
| ## 310 | 05-03-1982 | 0.05232637 | 0.05268297 |
| ## 315 | 12-03-1982 | 0.03953441 | 0.03998443 |
| ## 316 | 15-03-1982 | 0.03837170 | 0.03883488 |
| ## 319 | 18-03-1982 | 0.03953441 | 0.04004881 |
| ## 321 | 22-03-1982 | 0.06395352 | 0.06430661 |
| ## 326 | 29-03-1982 | 0.05232637 | 0.05276267 |
| ## 327 | 30-03-1982 | 0.05465180 | 0.05508375 |
| ## 333 | 07-04-1982 | 0.05930266 | 0.05958829 |
| ## 348 | 29-04-1982 | 0.03372084 | 0.03430830 |
| ## 358 | 13-05-1982 | 0.03953441 | 0.04004651 |
| ## 359 | 14-05-1982 | 0.03372084 | 0.03429825 |
| ## 360 | 17-05-1982 | 0.03139540 | 0.03194013 |
| ## 365 | 24-05-1982 | 0.03139540 | 0.03193834 |
| ## 369 | 28-05-1982 | 0.02790726 | 0.02846132 |
| ## 381 | 16-06-1982 | 0.02209368 | 0.02271669 |
| ## 384 | 21-06-1982 | 0.01744282 | 0.01808373 |
| ## 385 | 22-06-1982 | 0.02209368 | 0.02276525 |
| ## 390 | 29-06-1982 | 0.01628010 | 0.01688481 |
| ## 405 | 21-07-1982 | 0.03023269 | 0.03083406 |
| ## 407 | 23-07-1982 | 0.02906997 | 0.02956078 |
| ## 411 | 29-07-1982 | 0.02209368 | 0.02274137 |
| ## 414 | 03-08-1982 | 0.01860553 | 0.01925944 |
| ## 418 | 09-08-1982 | 0.01279196 | 0.01350072 |
| ## 436 | 02-09-1982 | 0.06744167 | 0.06777558 |
| ## 448 | 21-09-1982 | 0.06744167 | 0.06772810 |
| ## 451 | 24-09-1982 | 0.06627896 | 0.06669617 |
| ## 453 | 28-09-1982 | 0.06860439 | 0.06902159 |
| ## 465 | 14-10-1982 | 0.11744261 | 0.11751735 |
| ## 466 | 15-10-1982 | 0.11162903 | 0.11163644 |
| ## 479 | 03-11-1982 | 0.18372157 | 0.18356357 |
| ## 481 | 05-11-1982 | 0.17790799 | 0.17741801 |
| ## 482 | 08-11-1982 | 0.16627875 | 0.16624761 |
| ## 486 | 12-11-1982 | 0.19883687 | 0.19896380 |
| ## 488 | 16-11-1982 | 0.17674527 | 0.17671540 |

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|--------|------------|------------|------------|
| ## 503 | 08-12-1982 | 0.20581316 | 0.20585296 |
| ## 505 | 10-12-1982 | 0.16976689 | 0.16964002 |
| ## 506 | 13-12-1982 | 0.16395332 | 0.16361181 |
| ## 509 | 16-12-1982 | 0.16511603 | 0.16503352 |
| ## 523 | 06-01-1983 | 0.16860418 | 0.16842582 |
| ## 524 | 07-01-1983 | 0.15348888 | 0.15380915 |
| ## 530 | 17-01-1983 | 0.21511697 | 0.21485630 |
| ## 531 | 18-01-1983 | 0.20814068 | 0.20790696 |
| ## 532 | 19-01-1983 | 0.21046611 | 0.21002433 |
| ## 534 | 21-01-1983 | 0.24534966 | 0.24561532 |
| ## 538 | 27-01-1983 | 0.27674506 | 0.27592440 |
| ## 539 | 28-01-1983 | 0.27907049 | 0.27876267 |
| ## 540 | 31-01-1983 | 0.27790778 | 0.27695924 |
| ## 544 | 04-02-1983 | 0.30697775 | 0.30622528 |
| ## 546 | 08-02-1983 | 0.28720950 | 0.28629751 |
| ## 548 | 10-02-1983 | 0.31627948 | 0.31538439 |
| ## 551 | 15-02-1983 | 0.31976762 | 0.31850213 |
| ## 557 | 24-02-1983 | 0.34534945 | 0.34388940 |
| ## 558 | 25-02-1983 | 0.33255750 | 0.33145776 |
| ## 560 | 01-03-1983 | 0.32906935 | 0.32770597 |
| ## 566 | 09-03-1983 | 0.30348752 | 0.30208822 |
| ## 573 | 18-03-1983 | 0.29767394 | 0.29661508 |
| ## 581 | 30-03-1983 | 0.30930318 | 0.30795223 |
| ## 586 | 07-04-1983 | 0.26627854 | 0.26533464 |
| ## 591 | 14-04-1983 | 0.31627948 | 0.31487547 |
| ## 595 | 20-04-1983 | 0.36860376 | 0.36762176 |
| ## 596 | 21-04-1983 | 0.38139572 | 0.38011532 |
| ## 599 | 26-04-1983 | 0.36279018 | 0.36143451 |
| ## 606 | 05-05-1983 | 0.40814026 | 0.40645250 |
| ## 607 | 06-05-1983 | 0.41046569 | 0.40833366 |
| ## 613 | 16-05-1983 | 0.37907029 | 0.37726493 |
| ## 615 | 18-05-1983 | 0.38604658 | 0.38447257 |
| ## 616 | 19-05-1983 | 0.40116188 | 0.39924722 |
| ## 622 | 27-05-1983 | 0.45000010 | 0.44777183 |
| ## 626 | 03-06-1983 | 0.46860564 | 0.46640893 |
| ## 629 | 08-06-1983 | 0.45465097 | 0.45226501 |
| ## 634 | 15-06-1983 | 0.40348940 | 0.40141389 |
| ## 646 | 01-07-1983 | 0.35581389 | 0.35437220 |
| ## 647 | 05-07-1983 | 0.33721044 | 0.33597018 |
| ## 651 | 11-07-1983 | 0.33953587 | 0.33847029 |
| ## 656 | 18-07-1983 | 0.30930318 | 0.30760600 |
| ## 657 | 19-07-1983 | 0.30465232 | 0.30462063 |
| ## 660 | 22-07-1983 | 0.30465232 | 0.30331814 |
| ## 666 | 01-08-1983 | 0.21860512 | 0.21889430 |
| ## 668 | 03-08-1983 | 0.22209326 | 0.22165594 |
| ## 674 | 11-08-1983 | 0.21162882 | 0.21111775 |
| ## 677 | 16-08-1983 | 0.21279154 | 0.21223518 |
| ## 681 | 22-08-1983 | 0.21046611 | 0.20984206 |
| ## 689 | 01-09-1983 | 0.23604585 | 0.23594681 |
| ## 694 | 09-09-1983 | 0.18255885 | 0.18241955 |

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| ## 696 | 13-09-1983 | 0.19534872 | 0.19522080 |
| ## 704 | 23-09-1983 | 0.12325619 | 0.12602265 |
| ## 706 | 27-09-1983 | 0.11627989 | 0.11680720 |
| ## 708 | 29-09-1983 | 0.10930360 | 0.11004462 |
| ## 709 | 30-09-1983 | 0.11279175 | 0.11304843 |
| ## 711 | 04-10-1983 | 0.11046632 | 0.11085274 |
| ## 713 | 06-10-1983 | 0.10465065 | 0.10496131 |
| ## 716 | 11-10-1983 | 0.07790820 | 0.07838442 |
| ## 720 | 17-10-1983 | 0.09302350 | 0.09359336 |
| ## 729 | 28-10-1983 | 0.09186078 | 0.09199964 |
| ## 730 | 31-10-1983 | 0.10813880 | 0.10861937 |
| ## 735 | 07-11-1983 | 0.09302350 | 0.09344996 |
| ## 738 | 10-11-1983 | 0.08023363 | 0.08093091 |
| ## 750 | 29-11-1983 | 0.09069807 | 0.09109772 |
| ## 751 | 30-11-1983 | 0.08720992 | 0.08754278 |
| ## 756 | 07-12-1983 | 0.09302350 | 0.09340175 |
| ## 762 | 15-12-1983 | 0.12441890 | 0.12490164 |
| ## 769 | 27-12-1983 | 0.12790705 | 0.12792175 |
| ## 776 | 06-01-1984 | 0.15581431 | 0.15572626 |
| ## 778 | 10-01-1984 | 0.15465159 | 0.15454548 |
| ## 781 | 13-01-1984 | 0.15116344 | 0.15107797 |
| ## 794 | 01-02-1984 | 0.12674433 | 0.12713412 |
| ## 796 | 03-02-1984 | 0.12558162 | 0.12597168 |
| ## 798 | 07-02-1984 | 0.12209347 | 0.12203105 |
| ## 800 | 09-02-1984 | 0.11744261 | 0.11769238 |
| ## 807 | 21-02-1984 | 0.14069692 | 0.14063863 |
| ## 814 | 01-03-1984 | 0.14883801 | 0.14854061 |
| ## 815 | 02-03-1984 | 0.15116344 | 0.15141221 |
| ## 828 | 21-03-1984 | 0.13953421 | 0.13958627 |
| ## 849 | 19-04-1984 | 0.16046517 | 0.16013306 |
| ## 850 | 23-04-1984 | 0.16162789 | 0.16187459 |
| ## 851 | 24-04-1984 | 0.15697702 | 0.15721455 |
| ## 866 | 15-05-1984 | 0.19418601 | 0.19370021 |
| ## 867 | 16-05-1984 | 0.18139613 | 0.18140498 |
| ## 868 | 17-05-1984 | 0.16860418 | 0.16854746 |
| ## 873 | 24-05-1984 | 0.17092961 | 0.17060538 |
| ## 874 | 25-05-1984 | 0.17209233 | 0.17181633 |
| ## 875 | 29-05-1984 | 0.17092961 | 0.17056170 |
| ## 876 | 30-05-1984 | 0.16744146 | 0.16711751 |
| ## 883 | 08-06-1984 | 0.16395332 | 0.16346154 |
| ## 885 | 12-06-1984 | 0.16860418 | 0.16842845 |
| ## 887 | 14-06-1984 | 0.16627875 | 0.16599154 |
| ## 890 | 19-06-1984 | 0.17092961 | 0.17106075 |
| ## 891 | 20-06-1984 | 0.17907070 | 0.17847476 |
| ## 896 | 27-06-1984 | 0.13255791 | 0.13271423 |
| ## 900 | 03-07-1984 | 0.13255791 | 0.13250919 |
| ## 908 | 16-07-1984 | 0.13720877 | 0.13701263 |
| ## 913 | 23-07-1984 | 0.13139520 | 0.13106817 |
| ## 914 | 24-07-1984 | 0.14534987 | 0.14552758 |
| ## 918 | 30-07-1984 | 0.13488334 | 0.13504803 |

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|---------|------------|------------|------------|
| ## 927 | 10-08-1984 | 0.16279060 | 0.16367187 |
| ## 931 | 16-08-1984 | 0.15930245 | 0.15904583 |
| ## 934 | 21-08-1984 | 0.16279060 | 0.16276161 |
| ## 937 | 24-08-1984 | 0.15930245 | 0.15904477 |
| ## 950 | 13-09-1984 | 0.15348888 | 0.15336076 |
| ## 958 | 25-09-1984 | 0.14069692 | 0.14061027 |
| ## 961 | 28-09-1984 | 0.13139520 | 0.13135502 |
| ## 967 | 08-10-1984 | 0.12906977 | 0.12892223 |
| ## 968 | 09-10-1984 | 0.12674433 | 0.12676134 |
| ## 974 | 17-10-1984 | 0.12906977 | 0.12905661 |
| ## 982 | 29-10-1984 | 0.12790705 | 0.12777378 |
| ## 983 | 30-10-1984 | 0.13023248 | 0.13018970 |
| ## 990 | 08-11-1984 | 0.12790705 | 0.12794784 |
| ## 995 | 15-11-1984 | 0.11860532 | 0.11868443 |
| ## 1001 | 26-11-1984 | 0.12093076 | 0.12082917 |
| ## 1003 | 28-11-1984 | 0.13837149 | 0.13891413 |
| ## 1007 | 04-12-1984 | 0.12906977 | 0.12924671 |
| ## 1010 | 07-12-1984 | 0.15116344 | 0.15193859 |
| ## 1012 | 11-12-1984 | 0.14302444 | 0.14310307 |
| ## 1021 | 24-12-1984 | 0.15348888 | 0.15318946 |
| ## 1027 | 03-01-1985 | 0.16162789 | 0.16178239 |
| ## 1029 | 07-01-1985 | 0.16046517 | 0.16026711 |
| ## 1030 | 08-01-1985 | 0.15813974 | 0.15802618 |
| ## 1049 | 04-02-1985 | 0.16976689 | 0.16953513 |
| ## 1060 | 20-02-1985 | 0.14302444 | 0.14324510 |
| ## 1072 | 08-03-1985 | 0.09767436 | 0.09809624 |
| ## 1077 | 15-03-1985 | 0.10813880 | 0.10860053 |
| ## 1079 | 19-03-1985 | 0.10232522 | 0.10278307 |
| ## 1082 | 22-03-1985 | 0.10465065 | 0.10495498 |
| ## 1085 | 27-03-1985 | 0.10116251 | 0.10150500 |
| ## 1095 | 11-04-1985 | 0.09651164 | 0.09703693 |
| ## 1099 | 17-04-1985 | 0.10813880 | 0.10831582 |
| ## 1102 | 22-04-1985 | 0.09883708 | 0.09908095 |
| ## 1104 | 24-04-1985 | 0.10232522 | 0.10259311 |
| ## 1109 | 01-05-1985 | 0.09186078 | 0.09207284 |
| ## 1111 | 03-05-1985 | 0.08372177 | 0.08412291 |
| ## 1119 | 15-05-1985 | 0.08372177 | 0.08416324 |
| ## 1125 | 23-05-1985 | 0.08139634 | 0.08190828 |
| ## 1139 | 13-06-1985 | 0.03604627 | 0.03716155 |
| ## 1150 | 28-06-1985 | 0.06511624 | 0.06561847 |
| ## 1154 | 05-07-1985 | 0.06162809 | 0.06195825 |
| ## 1157 | 10-07-1985 | 0.06511624 | 0.06542653 |
| ## 1162 | 17-07-1985 | 0.06162809 | 0.06213641 |
| ## 1167 | 24-07-1985 | 0.04883822 | 0.04955248 |
| ## 1168 | 25-07-1985 | 0.05232637 | 0.05306591 |
| ## 1176 | 06-08-1985 | 0.03953441 | 0.04023936 |
| ## 1178 | 08-08-1985 | 0.03837170 | 0.03900540 |
| ## 1182 | 14-08-1985 | 0.03372084 | 0.03461353 |
| ## 1185 | 19-08-1985 | 0.03720898 | 0.03780822 |
| ## 1186 | 20-08-1985 | 0.03953441 | 0.03998365 |

| | | | |
|---------|------------|------------|------------|
| ## 1197 | 05-09-1985 | 0.03604627 | 0.03655615 |
| ## 1201 | 11-09-1985 | 0.04185984 | 0.04239490 |
| ## 1202 | 12-09-1985 | 0.04767551 | 0.04811858 |
| ## 1213 | 30-09-1985 | 0.04418736 | 0.04466989 |
| ## 1227 | 18-10-1985 | 0.06279081 | 0.06345188 |
| ## 1230 | 23-10-1985 | 0.06511624 | 0.06579111 |
| ## 1232 | 25-10-1985 | 0.06511624 | 0.06545150 |
| ## 1234 | 29-10-1985 | 0.06395352 | 0.06432981 |
| ## 1238 | 04-11-1985 | 0.07209253 | 0.07264963 |
| ## 1239 | 05-11-1985 | 0.07092982 | 0.07146093 |
| ## 1241 | 07-11-1985 | 0.08023363 | 0.08084999 |
| ## 1252 | 22-11-1985 | 0.07441796 | 0.07480824 |
| ## 1253 | 25-11-1985 | 0.07558068 | 0.07589672 |
| ## 1254 | 26-11-1985 | 0.07790820 | 0.07826502 |
| ## 1259 | 04-12-1985 | 0.08837264 | 0.08870722 |
| ## 1260 | 05-12-1985 | 0.08488449 | 0.08527020 |
| ## 1268 | 17-12-1985 | 0.08953535 | 0.08972462 |
| ## 1273 | 24-12-1985 | 0.09999979 | 0.10007209 |
| ## 1276 | 30-12-1985 | 0.10465065 | 0.10481984 |
| ## 1279 | 03-01-1986 | 0.10581337 | 0.10597162 |
| ## 1280 | 06-01-1986 | 0.10465065 | 0.10468087 |
| ## 1282 | 08-01-1986 | 0.11046632 | 0.11136362 |
| ## 1283 | 09-01-1986 | 0.10813880 | 0.10845389 |
| ## 1285 | 13-01-1986 | 0.11162903 | 0.11176429 |
| ## 1287 | 15-01-1986 | 0.11976804 | 0.12017968 |
| ## 1290 | 20-01-1986 | 0.11976804 | 0.11958000 |
| ## 1296 | 28-01-1986 | 0.10465065 | 0.10487000 |
| ## 1301 | 04-02-1986 | 0.11860532 | 0.11905476 |
| ## 1302 | 05-02-1986 | 0.11860532 | 0.11863981 |
| ## 1303 | 06-02-1986 | 0.12209347 | 0.12210629 |
| ## 1310 | 18-02-1986 | 0.11976804 | 0.11967143 |
| ## 1315 | 25-02-1986 | 0.14302444 | 0.14278979 |
| ## 1320 | 04-03-1986 | 0.12674433 | 0.12678311 |
| ## 1334 | 24-03-1986 | 0.14651258 | 0.14652838 |
| ## 1341 | 03-04-1986 | 0.14883801 | 0.14891778 |
| ## 1342 | 04-04-1986 | 0.14651258 | 0.14627055 |
| ## 1357 | 25-04-1986 | 0.19767415 | 0.19754341 |
| ## 1361 | 01-05-1986 | 0.17907070 | 0.17858725 |
| ## 1368 | 12-05-1986 | 0.23604585 | 0.23592481 |
| ## 1371 | 15-05-1986 | 0.23255770 | 0.23193959 |
| ## 1376 | 22-05-1986 | 0.23953608 | 0.23877685 |
| ## 1381 | 30-05-1986 | 0.24186151 | 0.24091809 |
| ## 1383 | 03-06-1986 | 0.25000052 | 0.24947890 |
| ## 1400 | 26-06-1986 | 0.23488313 | 0.23397905 |
| ## 1403 | 01-07-1986 | 0.22674413 | 0.22592550 |
| ## 1415 | 18-07-1986 | 0.19302329 | 0.19275986 |
| ## 1420 | 25-07-1986 | 0.21395425 | 0.21337815 |
| ## 1424 | 31-07-1986 | 0.18837243 | 0.18824389 |
| ## 1430 | 08-08-1986 | 0.19186057 | 0.19162020 |
| ## 1435 | 15-08-1986 | 0.23023227 | 0.22965715 |

| | | | |
|---------|------------|------------|------------|
| ## 1442 | 26-08-1986 | 0.23837128 | 0.23764119 |
| ## 1445 | 29-08-1986 | 0.24186151 | 0.24125095 |
| ## 1452 | 10-09-1986 | 0.22325598 | 0.22259129 |
| ## 1458 | 18-09-1986 | 0.21395425 | 0.21330646 |
| ## 1460 | 22-09-1986 | 0.22558141 | 0.22516251 |
| ## 1465 | 29-09-1986 | 0.19999958 | 0.19957519 |
| ## 1466 | 30-09-1986 | 0.20930339 | 0.20888489 |
| ## 1470 | 06-10-1986 | 0.21511697 | 0.21440636 |
| ## 1472 | 08-10-1986 | 0.20232501 | 0.20159585 |
| ## 1473 | 09-10-1986 | 0.20465045 | 0.20405906 |
| ## 1477 | 15-10-1986 | 0.20814068 | 0.20736873 |
| ## 1478 | 16-10-1986 | 0.21046611 | 0.20990462 |
| ## 1496 | 11-11-1986 | 0.22790684 | 0.22704790 |
| ## 1502 | 19-11-1986 | 0.22325598 | 0.22261036 |
| ## 1503 | 20-11-1986 | 0.22558141 | 0.22508060 |
| ## 1506 | 25-11-1986 | 0.27209420 | 0.27213699 |
| ## 1508 | 28-11-1986 | 0.26976669 | 0.26879925 |
| ## 1516 | 10-12-1986 | 0.30232481 | 0.30124662 |
| ## 1522 | 18-12-1986 | 0.28255864 | 0.28159975 |
| ## 1531 | 02-01-1987 | 0.27790778 | 0.27682621 |
| ## 1536 | 09-01-1987 | 0.31976762 | 0.31858128 |
| ## 1537 | 12-01-1987 | 0.32093034 | 0.31946578 |
| ## 1539 | 14-01-1987 | 0.34534945 | 0.34453593 |
| ## 1542 | 19-01-1987 | 0.39186016 | 0.39032396 |
| ## 1545 | 22-01-1987 | 0.38604658 | 0.38483710 |
| ## 1548 | 27-01-1987 | 0.38837201 | 0.38716820 |
| ## 1551 | 30-01-1987 | 0.41395384 | 0.41207773 |
| ## 1554 | 04-02-1987 | 0.40930297 | 0.40716220 |
| ## 1555 | 05-02-1987 | 0.39883645 | 0.39709179 |
| ## 1556 | 06-02-1987 | 0.39999917 | 0.39776065 |
| ## 1558 | 10-02-1987 | 0.38837201 | 0.38616826 |
| ## 1567 | 24-02-1987 | 0.50697734 | 0.50490792 |
| ## 1575 | 06-03-1987 | 0.52325535 | 0.52087750 |
| ## 1585 | 20-03-1987 | 0.53255916 | 0.53071223 |
| ## 1601 | 13-04-1987 | 0.52558078 | 0.52326731 |
| ## 1609 | 24-04-1987 | 0.59302246 | 0.59028302 |
| ## 1610 | 27-04-1987 | 0.59534789 | 0.59207880 |
| ## 1612 | 29-04-1987 | 0.62092971 | 0.61866311 |
| ## 1618 | 07-05-1987 | 0.64418611 | 0.64090990 |
| ## 1620 | 11-05-1987 | 0.61395342 | 0.61290171 |
| ## 1626 | 19-05-1987 | 0.57906987 | 0.57710857 |
| ## 1629 | 22-05-1987 | 0.58720888 | 0.58508197 |
| ## 1643 | 12-06-1987 | 0.63255895 | 0.63018735 |
| ## 1647 | 18-06-1987 | 0.66976794 | 0.66706630 |
| ## 1649 | 22-06-1987 | 0.67906966 | 0.67636096 |
| ## 1654 | 29-06-1987 | 0.65581327 | 0.65265923 |
| ## 1659 | 07-07-1987 | 0.62790601 | 0.62612548 |
| ## 1669 | 21-07-1987 | 0.66744250 | 0.66529153 |
| ## 1674 | 28-07-1987 | 0.67674423 | 0.67418245 |
| ## 1678 | 03-08-1987 | 0.64651154 | 0.64455408 |

| | | | |
|---------|------------|------------|------------|
| ## 1682 | 07-08-1987 | 0.76279143 | 0.76016909 |
| ## 1683 | 10-08-1987 | 0.79534955 | 0.79114778 |
| ## 1684 | 11-08-1987 | 0.81860387 | 0.81655299 |
| ## 1686 | 13-08-1987 | 0.80930214 | 0.80819223 |
| ## 1687 | 14-08-1987 | 0.80930214 | 0.80766768 |
| ## 1689 | 18-08-1987 | 0.80465128 | 0.80235948 |
| ## 1692 | 21-08-1987 | 0.88372011 | 0.88179117 |
| ## 1693 | 24-08-1987 | 0.86976752 | 0.86775791 |
| ## 1698 | 31-08-1987 | 0.90232564 | 0.89965253 |
| ## 1705 | 10-09-1987 | 0.89767478 | 0.89559486 |
| ## 1707 | 14-09-1987 | 0.88372011 | 0.88185583 |
| ## 1716 | 25-09-1987 | 0.96744188 | 0.96466326 |
| ## 1743 | 03-11-1987 | 0.57209358 | 0.57086880 |
| ## 1747 | 09-11-1987 | 0.59069703 | 0.58905379 |
| ## 1760 | 27-11-1987 | 0.54883718 | 0.54932296 |
| ## 1770 | 11-12-1987 | 0.53023165 | 0.53015221 |
| ## 1775 | 18-12-1987 | 0.65116240 | 0.65199571 |
| ## 1783 | 31-12-1987 | 0.67906966 | 0.67935742 |
| ## 1789 | 11-01-1988 | 0.68837139 | 0.68893815 |
| ## 1790 | 12-01-1988 | 0.67906966 | 0.67859482 |
| ## 1794 | 18-01-1988 | 0.69302225 | 0.69216924 |
| ## 1795 | 19-01-1988 | 0.69302225 | 0.69290618 |
| ## 1796 | 20-01-1988 | 0.63720982 | 0.63795398 |
| ## 1803 | 29-01-1988 | 0.66976794 | 0.66904652 |
| ## 1806 | 03-02-1988 | 0.63255895 | 0.63312224 |
| ## 1808 | 05-02-1988 | 0.61627885 | 0.61695016 |
| ## 1814 | 16-02-1988 | 0.66511707 | 0.66559453 |
| ## 1815 | 17-02-1988 | 0.67674423 | 0.67881959 |
| ## 1818 | 22-02-1988 | 0.70232606 | 0.70424972 |
| ## 1820 | 24-02-1988 | 0.68372052 | 0.68510220 |
| ## 1822 | 26-02-1988 | 0.67441880 | 0.67547043 |
| ## 1839 | 22-03-1988 | 0.71627864 | 0.71740181 |
| ## 1847 | 04-04-1988 | 0.61860428 | 0.62090704 |
| ## 1865 | 28-04-1988 | 0.66744250 | 0.66880462 |
| ## 1872 | 09-05-1988 | 0.65581327 | 0.65681603 |
| ## 1882 | 23-05-1988 | 0.60465170 | 0.60738025 |
| ## 1888 | 01-06-1988 | 0.68837139 | 0.69102800 |
| ## 1889 | 02-06-1988 | 0.67441880 | 0.67745165 |
| ## 1892 | 07-06-1988 | 0.71627864 | 0.72046627 |
| ## 1901 | 20-06-1988 | 0.71860407 | 0.72154083 |
| ## 1902 | 21-06-1988 | 0.73255875 | 0.73534214 |
| ## 1904 | 23-06-1988 | 0.73488418 | 0.73764552 |
| ## 1906 | 27-06-1988 | 0.72558037 | 0.72913189 |
| ## 1913 | 07-07-1988 | 0.75116219 | 0.75354777 |
| ## 1917 | 13-07-1988 | 0.73023331 | 0.73273837 |
| ## 1924 | 22-07-1988 | 0.68837139 | 0.69132888 |
| ## 1928 | 28-07-1988 | 0.69069682 | 0.69346629 |
| ## 1932 | 03-08-1988 | 0.73023331 | 0.73226554 |
| ## 1943 | 18-08-1988 | 0.68837139 | 0.69276226 |
| ## 1953 | 01-09-1988 | 0.62092971 | 0.62488314 |

```
## 1956 07-09-1988 0.60930256 0.61363722
## 1958 09-09-1988 0.65116240 0.65545084
## 1959 12-09-1988 0.66046413 0.66468045
## 1966 21-09-1988 0.69302225 0.69724702
## 1970 27-09-1988 0.70465149 0.70896799
## 1975 04-10-1988 0.66976794 0.67419991
## 1977 06-10-1988 0.63720982 0.64145538
## 1991 26-10-1988 0.62790601 0.63152600
## 1992 27-10-1988 0.62325515 0.62701922
## 1994 31-10-1988 0.61627885 0.61944006
## 1997 03-11-1988 0.58837159 0.59222812
```

```
ggplot(output_df, aes(x = Actual_Close, y = Predicted_Close)) +
  geom_point(aes(color = "Actual"), alpha = 0.5) + # Actual points with blue
color and transparency
  geom_point(aes(color = "Predicted"), alpha = 0.5) + # Predicted points with
red color and transparency
  geom_abline(intercept = 0, slope = 1, color = "yellow", linetype =
"dashed") +
  labs(title = "Actual vs. Predicted Close Prices", x = "Actual Close Price",
y = "Predicted Close Price") +
  scale_color_manual(values = c("Actual" = "green", "Predicted" = "red")) +
  theme_minimal()
```



Hardik Jain Code performed for the Random Forest for all datasets.

RANDOM FOREST

```
#Load the required libraries
install.packages('caret')

## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)

library(caret)
install.packages('randomForest')

## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)

library(randomForest)

## randomForest 4.7-1.1

## Type rfNews() to see new features/changes/bug fixes.

##
## Attaching package: 'randomForest'

## The following object is masked from 'package:ggplot2':
##
##     margin

## The following object is masked from 'package:dplyr':
##
##     combine

# If not, you can load it using: df <- read.csv('your_data.csv')
df <- read.csv('NFLX-PRE.csv')

# Split the data into training and testing sets for reproducibility
set.seed(123)
train_index <- createDataPartition(df$Close, p = 0.9, list = FALSE)
train_data <- df[train_index, ]
test_data <- df[-train_index, ]

# Create the Random Forest model
model <- randomForest(Close ~ Open + High + Low + Adj_Close + Volume, data =
train_data)

# Make predictions on the test data
predictions <- predict(model, newdata = test_data)

# Calculate the Mean Squared Error and R-squared for model evaluation
mse <- mean((test_data$Close - predictions)^2)
```

```

r_squared <- cor(test_data$Close, predictions)^2
cat("Mean Squared Error:", mse, "\n")

## Mean Squared Error: 4.724658e-05

cat("R-squared:", r_squared, "\n")

## R-squared: 0.9990947

# Now, Let's predict the future 'Close' using the model
future_features <- data.frame(Open = c(200), High = c(220), Low = c(190),
Adj_Close = c(210), Volume = c(150000))
future_close <- predict(model, newdata = future_features)
cat("Predicted Future Close:", future_close, "\n")

## Predicted Future Close: 0.8964885

output_df <- data.frame(Date = test_data$Date, Actual_Close =
test_data$Close, Predicted_Close = predictions)
print(output_df)

##           Date Actual_Close Predicted_Close
## 2    15-12-1980    0.15116344    0.15149851
## 4    17-12-1980    0.13837149    0.13782506
## 13   31-12-1980    0.21511697    0.21379396
## 35    02-02-1981    0.14534987    0.14529840
## 41    10-02-1981    0.15116344    0.15059068
## 61    11-03-1981    0.09883708    0.09917111
## 62    12-03-1981    0.10697609    0.10603833
## 81    08-04-1981    0.14883801    0.14846109
## 99    05-05-1981    0.15930245    0.15919006
## 103   11-05-1981    0.15232616    0.15232887
## 114   27-05-1981    0.20465045    0.20577428
## 135   25-06-1981    0.17209233    0.17287096
## 136   26-06-1981    0.16860418    0.16886699
## 156   27-07-1981    0.13023248    0.12984818
## 163   05-08-1981    0.13837149    0.13770754
## 168   12-08-1981    0.12093076    0.12126414
## 185   04-09-1981    0.08720992    0.08778290
## 187   09-09-1981    0.08139634    0.08099935
## 214   16-10-1981    0.06744167    0.06742592
## 219   23-10-1981    0.07441796    0.07459948
## 228   05-11-1981    0.06395352    0.06410283
## 232   11-11-1981    0.07325525    0.07333876
## 235   16-11-1981    0.06395352    0.06419361
## 241   24-11-1981    0.06511624    0.06563848
## 276   15-01-1982    0.08372177    0.08395652
## 301   22-02-1982    0.06976710    0.06995305
## 303   24-02-1982    0.06860439    0.06849838
## 309   04-03-1982    0.06511624    0.06541175
## 310   05-03-1982    0.05232637    0.05186879

```

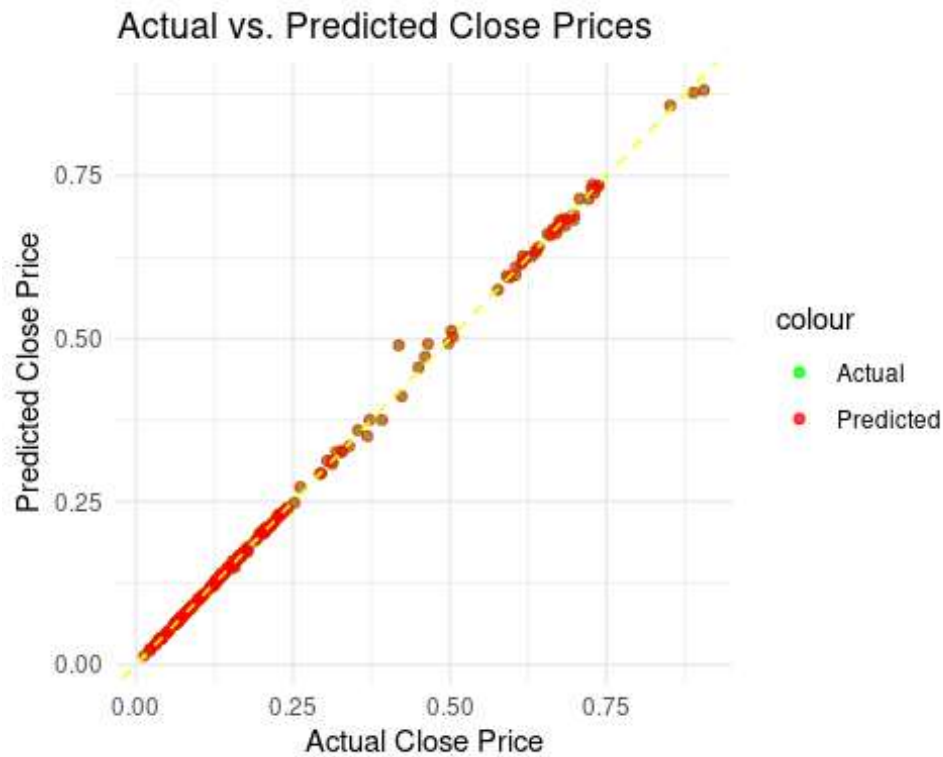
| | | | |
|--------|------------|------------|------------|
| ## 315 | 12-03-1982 | 0.03953441 | 0.03975612 |
| ## 316 | 15-03-1982 | 0.03837170 | 0.03873341 |
| ## 319 | 18-03-1982 | 0.03953441 | 0.03939594 |
| ## 333 | 07-04-1982 | 0.05930266 | 0.06054030 |
| ## 365 | 24-05-1982 | 0.03139540 | 0.03091453 |
| ## 381 | 16-06-1982 | 0.02209368 | 0.02258097 |
| ## 385 | 22-06-1982 | 0.02209368 | 0.02403453 |
| ## 405 | 21-07-1982 | 0.03023269 | 0.02997552 |
| ## 411 | 29-07-1982 | 0.02209368 | 0.02159201 |
| ## 418 | 09-08-1982 | 0.01279196 | 0.01353065 |
| ## 448 | 21-09-1982 | 0.06744167 | 0.06739295 |
| ## 453 | 28-09-1982 | 0.06860439 | 0.06848593 |
| ## 473 | 26-10-1982 | 0.12558162 | 0.12180567 |
| ## 486 | 12-11-1982 | 0.19883687 | 0.20277451 |
| ## 490 | 18-11-1982 | 0.18953514 | 0.18998992 |
| ## 500 | 03-12-1982 | 0.19302329 | 0.19299520 |
| ## 503 | 08-12-1982 | 0.20581316 | 0.20913837 |
| ## 510 | 17-12-1982 | 0.17790799 | 0.17301298 |
| ## 511 | 20-12-1982 | 0.17674527 | 0.17655158 |
| ## 524 | 07-01-1983 | 0.15348888 | 0.15894092 |
| ## 537 | 26-01-1983 | 0.25232595 | 0.24805495 |
| ## 543 | 03-02-1983 | 0.31279133 | 0.30757017 |
| ## 550 | 14-02-1983 | 0.32790663 | 0.32609031 |
| ## 562 | 03-03-1983 | 0.31860491 | 0.32599485 |
| ## 575 | 22-03-1983 | 0.31162861 | 0.31219667 |
| ## 579 | 28-03-1983 | 0.29302308 | 0.29255520 |
| ## 595 | 20-04-1983 | 0.36860376 | 0.35017298 |
| ## 597 | 22-04-1983 | 0.37209399 | 0.37544395 |
| ## 621 | 26-05-1983 | 0.45000010 | 0.45538677 |
| ## 650 | 08-07-1983 | 0.32790663 | 0.32760038 |
| ## 651 | 11-07-1983 | 0.33953587 | 0.33491241 |
| ## 657 | 19-07-1983 | 0.30465232 | 0.31259827 |
| ## 662 | 26-07-1983 | 0.26162768 | 0.27222987 |
| ## 671 | 08-08-1983 | 0.21395425 | 0.21239232 |
| ## 680 | 19-08-1983 | 0.21162882 | 0.21019673 |
| ## 687 | 30-08-1983 | 0.20348773 | 0.20188130 |
| ## 699 | 16-09-1983 | 0.17092961 | 0.17149352 |
| ## 701 | 20-09-1983 | 0.19651144 | 0.20017296 |
| ## 716 | 11-10-1983 | 0.07790820 | 0.07926177 |
| ## 731 | 01-11-1983 | 0.11162903 | 0.11197491 |
| ## 738 | 10-11-1983 | 0.08023363 | 0.08065771 |
| ## 751 | 30-11-1983 | 0.08720992 | 0.08854786 |
| ## 756 | 07-12-1983 | 0.09302350 | 0.09234485 |
| ## 774 | 04-01-1984 | 0.15697702 | 0.14882825 |
| ## 794 | 01-02-1984 | 0.12674433 | 0.12797492 |
| ## 812 | 28-02-1984 | 0.13488334 | 0.13861466 |
| ## 821 | 12-03-1984 | 0.15232616 | 0.14958018 |
| ## 847 | 17-04-1984 | 0.15348888 | 0.15268308 |
| ## 849 | 19-04-1984 | 0.16046517 | 0.15928039 |
| ## 851 | 24-04-1984 | 0.15697702 | 0.15790461 |

| | | | |
|---------|------------|------------|------------|
| ## 859 | 04-05-1984 | 0.17790799 | 0.18050851 |
| ## 861 | 08-05-1984 | 0.20348773 | 0.20114295 |
| ## 864 | 11-05-1984 | 0.19767415 | 0.19974965 |
| ## 876 | 30-05-1984 | 0.16744146 | 0.16706604 |
| ## 877 | 31-05-1984 | 0.17092961 | 0.17090619 |
| ## 896 | 27-06-1984 | 0.13255791 | 0.13253020 |
| ## 898 | 29-06-1984 | 0.14418715 | 0.14671432 |
| ## 908 | 16-07-1984 | 0.13720877 | 0.13736494 |
| ## 927 | 10-08-1984 | 0.16279060 | 0.16649801 |
| ## 944 | 05-09-1984 | 0.14186172 | 0.14118336 |
| ## 956 | 21-09-1984 | 0.14767530 | 0.14860271 |
| ## 957 | 24-09-1984 | 0.14534987 | 0.14564481 |
| ## 958 | 25-09-1984 | 0.14069692 | 0.14111055 |
| ## 961 | 28-09-1984 | 0.13139520 | 0.13136747 |
| ## 962 | 01-10-1984 | 0.12558162 | 0.12628688 |
| ## 968 | 09-10-1984 | 0.12674433 | 0.12743847 |
| ## 981 | 26-10-1984 | 0.12674433 | 0.12838516 |
| ## 989 | 07-11-1984 | 0.13720877 | 0.13853618 |
| ## 1004 | 29-11-1984 | 0.13372063 | 0.13442349 |
| ## 1007 | 04-12-1984 | 0.12906977 | 0.12964461 |
| ## 1029 | 07-01-1985 | 0.16046517 | 0.16062851 |
| ## 1032 | 10-01-1985 | 0.17674527 | 0.17671674 |
| ## 1033 | 11-01-1985 | 0.17441984 | 0.17518733 |
| ## 1048 | 01-02-1985 | 0.16395332 | 0.16471301 |
| ## 1064 | 26-02-1985 | 0.14651258 | 0.14753120 |
| ## 1102 | 22-04-1985 | 0.09883708 | 0.10097220 |
| ## 1103 | 23-04-1985 | 0.10348794 | 0.10401253 |
| ## 1109 | 01-05-1985 | 0.09186078 | 0.09243006 |
| ## 1154 | 05-07-1985 | 0.06162809 | 0.06176224 |
| ## 1162 | 17-07-1985 | 0.06162809 | 0.06103837 |
| ## 1167 | 24-07-1985 | 0.04883822 | 0.04929817 |
| ## 1168 | 25-07-1985 | 0.05232637 | 0.05222334 |
| ## 1176 | 06-08-1985 | 0.03953441 | 0.03990188 |
| ## 1178 | 08-08-1985 | 0.03837170 | 0.03880810 |
| ## 1182 | 14-08-1985 | 0.03372084 | 0.03634063 |
| ## 1186 | 20-08-1985 | 0.03953441 | 0.04108196 |
| ## 1201 | 11-09-1985 | 0.04185984 | 0.04085224 |
| ## 1202 | 12-09-1985 | 0.04767551 | 0.04725322 |
| ## 1230 | 23-10-1985 | 0.06511624 | 0.06579201 |
| ## 1234 | 29-10-1985 | 0.06395352 | 0.06404840 |
| ## 1238 | 04-11-1985 | 0.07209253 | 0.07254460 |
| ## 1239 | 05-11-1985 | 0.07092982 | 0.07180822 |
| ## 1253 | 25-11-1985 | 0.07558068 | 0.07484291 |
| ## 1259 | 04-12-1985 | 0.08837264 | 0.08660464 |
| ## 1260 | 05-12-1985 | 0.08488449 | 0.08492332 |
| ## 1271 | 20-12-1985 | 0.10581337 | 0.10617868 |
| ## 1273 | 24-12-1985 | 0.09999979 | 0.09939926 |
| ## 1296 | 28-01-1986 | 0.10465065 | 0.10431564 |
| ## 1301 | 04-02-1986 | 0.11860532 | 0.11922445 |
| ## 1302 | 05-02-1986 | 0.11860532 | 0.11816580 |

| | | | |
|---------|------------|------------|------------|
| ## 1303 | 06-02-1986 | 0.12209347 | 0.12058582 |
| ## 1305 | 10-02-1986 | 0.11976804 | 0.11948237 |
| ## 1313 | 21-02-1986 | 0.13255791 | 0.13365923 |
| ## 1320 | 04-03-1986 | 0.12674433 | 0.12725354 |
| ## 1334 | 24-03-1986 | 0.14651258 | 0.14857573 |
| ## 1347 | 11-04-1986 | 0.14883801 | 0.14924395 |
| ## 1351 | 17-04-1986 | 0.16744146 | 0.16456795 |
| ## 1376 | 22-05-1986 | 0.23953608 | 0.23933328 |
| ## 1388 | 10-06-1986 | 0.23255770 | 0.23115079 |
| ## 1403 | 01-07-1986 | 0.22674413 | 0.22741552 |
| ## 1404 | 02-07-1986 | 0.23372042 | 0.23329756 |
| ## 1408 | 09-07-1986 | 0.21976783 | 0.21896675 |
| ## 1419 | 24-07-1986 | 0.20581316 | 0.20866185 |
| ## 1437 | 19-08-1986 | 0.22674413 | 0.22622748 |
| ## 1470 | 06-10-1986 | 0.21511697 | 0.21333469 |
| ## 1478 | 16-10-1986 | 0.21046611 | 0.21056569 |
| ## 1483 | 23-10-1986 | 0.20581316 | 0.20368726 |
| ## 1489 | 31-10-1986 | 0.21976783 | 0.21864595 |
| ## 1492 | 05-11-1986 | 0.24186151 | 0.23951228 |
| ## 1499 | 14-11-1986 | 0.22558141 | 0.22680217 |
| ## 1501 | 18-11-1986 | 0.22674413 | 0.22995946 |
| ## 1511 | 03-12-1986 | 0.29534851 | 0.29357350 |
| ## 1542 | 19-01-1987 | 0.39186016 | 0.37514219 |
| ## 1544 | 21-01-1987 | 0.35348846 | 0.35930861 |
| ## 1559 | 11-02-1987 | 0.42325556 | 0.41141327 |
| ## 1581 | 16-03-1987 | 0.50465190 | 0.50224380 |
| ## 1592 | 31-03-1987 | 0.49767353 | 0.49291380 |
| ## 1608 | 23-04-1987 | 0.60465170 | 0.59740478 |
| ## 1611 | 28-04-1987 | 0.61395342 | 0.61453030 |
| ## 1635 | 02-06-1987 | 0.61627885 | 0.61816571 |
| ## 1660 | 08-07-1987 | 0.59069703 | 0.59614320 |
| ## 1662 | 10-07-1987 | 0.60465170 | 0.60910413 |
| ## 1664 | 14-07-1987 | 0.69767519 | 0.68195984 |
| ## 1668 | 20-07-1987 | 0.67441880 | 0.68044346 |
| ## 1677 | 31-07-1987 | 0.66511707 | 0.66817894 |
| ## 1679 | 04-08-1987 | 0.68372052 | 0.67313372 |
| ## 1701 | 03-09-1987 | 0.85116199 | 0.85731008 |
| ## 1713 | 22-09-1987 | 0.90465107 | 0.88110747 |
| ## 1729 | 14-10-1987 | 0.88837097 | 0.87705253 |
| ## 1737 | 26-10-1987 | 0.41860470 | 0.48976800 |
| ## 1738 | 27-10-1987 | 0.46046454 | 0.47186016 |
| ## 1759 | 25-11-1987 | 0.57674444 | 0.57491376 |
| ## 1763 | 02-12-1987 | 0.50232647 | 0.51172825 |
| ## 1764 | 03-12-1987 | 0.46511541 | 0.49166988 |
| ## 1772 | 15-12-1987 | 0.59534789 | 0.59369588 |
| ## 1783 | 31-12-1987 | 0.67906966 | 0.68237973 |
| ## 1785 | 05-01-1988 | 0.72790788 | 0.73632578 |
| ## 1808 | 05-02-1988 | 0.61627885 | 0.62647409 |
| ## 1813 | 12-02-1988 | 0.66046413 | 0.65820829 |
| ## 1823 | 29-02-1988 | 0.69767519 | 0.68987664 |


```
## 1825 02-03-1988    0.73023331    0.72332585
## 1846 31-03-1988    0.64186068    0.63998866
## 1852 11-04-1988    0.66976794    0.66918028
## 1863 26-04-1988    0.66976794    0.66865500
## 1872 09-05-1988    0.65581327    0.66069457
## 1880 19-05-1988    0.62325515    0.62484678
## 1886 27-05-1988    0.63720982    0.63251637
## 1887 31-05-1988    0.66976794    0.66181907
## 1894 09-06-1988    0.70697692    0.71460287
## 1899 16-06-1988    0.72558037    0.72984812
## 1915 11-07-1988    0.73720961    0.73460057
## 1917 13-07-1988    0.73023331    0.72994507
## 1919 15-07-1988    0.73488418    0.73283572
## 1934 05-08-1988    0.72092951    0.71407968
## 1954 02-09-1988    0.63720982    0.63611008
## 1963 16-09-1988    0.68372052    0.68297803
## 1964 19-09-1988    0.67441880    0.67417714
## 1966 21-09-1988    0.69302225    0.68647518
## 1985 18-10-1988    0.63023352    0.62596387
```

```
ggplot(output_df, aes(x = Actual_Close, y = Predicted_Close)) +
  geom_point(aes(color = "Actual"), alpha = 0.5) + # Actual points with blue
color and transparency
  geom_point(aes(color = "Predicted"), alpha = 0.5) + # Predicted points with
red color and transparency
  geom_abline(intercept = 0, slope = 1, color = "yellow", linetype =
"dashed") +
  labs(title = "Actual vs. Predicted Close Prices", x = "Actual Close Price",
y = "Predicted Close Price") +
  scale_color_manual(values = c("Actual" = "green", "Predicted" = "red")) +
  theme_minimal()
```



Sairaj Salvi Code performed for the Long Short-Term Memory (LSTM) for all data

LONG SHORT-TERM MEMORY:-

```
install.packages('tidyverse')
library(tidyverse)
install.packages('keras')
library(keras)

# Load and preprocess the data
df <- read.csv('/content/NFLX-PRE.csv')

# Remove non-numeric columns
numeric_columns <- sapply(df, is.numeric)
df_numeric <- df[, numeric_columns]
```

```

# Check for missing values and replace them
df_numeric[is.na(df_numeric)] <- 0 # Replace missing values with 0

# Normalize the data
normalize <- function(x) {
  return((x - min(x)) / (max(x) - min(x)))
}

df_normalized <- as.data.frame(lapply(df_numeric, normalize))

# Prepare sequences for LSTM
sequence_length <- 10 # You can adjust this based on your preference
sequences <- matrix(0, nrow = nrow(df_normalized) - sequence_length + 1, ncol
= sequence_length, byrow = TRUE)
for (i in 1:(nrow(df_normalized) - sequence_length + 1)) {
  sequences[i, ] <- df_normalized$Close[i:(i + sequence_length - 1)]
}
targets <- df_normalized$Close[(sequence_length):(nrow(df_normalized))]

# Create LSTM model
model <- keras_model_sequential()
model %>%
  layer_lstm(units = 50, input_shape = c(sequence_length, 1)) %>%
  layer_dense(units = 1)

# Compile the model
model %>% compile(
  loss = 'mean_squared_error',
  optimizer = optimizer_adam(),

```

```

    metrics = c('mean_absolute_error')
)

# Train the model
X <- array_reshape(sequences, c(dim(sequences), 1))
history <- model %>% fit(
  x = X,
  y = targets,
  batch_size = 32,
  epochs = 100,
  validation_split = 0.1
)

# Make predictions on the entire dataset
all_sequences <- matrix(0, nrow = nrow(df_normalized) - sequence_length + 1,
  ncol = sequence_length, byrow = TRUE)
for (i in 1:(nrow(df_normalized) - sequence_length + 1)) {
  all_sequences[i, ] <- df_normalized$Close[i:(i + sequence_length - 1)]
}
all_X <- array_reshape(all_sequences, c(dim(all_sequences), 1))
predictions <- model %>% predict(all_X)

# Inverse normalize predictions
predictions <- predictions * (max(df$Close) - min(df$Close)) + min(df$Close)

# Calculate Mean Squared Error
mse <- mean((df$Close[(sequence_length):(nrow(df))]] - predictions)^2)
cat("Mean Squared Error:", mse, "\n")
# Calculate R-squared value

```

```

actual_values <- df$Close[(sequence_length):(nrow(df))]
r_squared <- (cor(actual_values, predictions))^2
cat("R-squared:", r_squared, "\n")

# Calculate accuracy in percentage
accuracy <- sum(sign(predictions - df$Close[(sequence_length):(nrow(df))]) ==
0) / length(predictions) * 100
cat("Accuracy:", accuracy, "%\n")

# Print the predictions

# Print the predictions
output_df <- data.frame(Date = df$Date[(sequence_length):(nrow(df))],
Actual_Close = df$Close[(sequence_length):(nrow(df))], Predicted_Close =
predictions)
print(output_df)

ggplot(output_df, aes(x = Actual_Close, y = Predicted_Close)) +
  geom_point(aes(color = "Actual"), alpha = 0.5) + # Actual points with blue
color and transparency
  geom_point(aes(color = "Predicted"), alpha = 0.5) + # Predicted points with
red color and transparency
  geom_abline(intercept = 0, slope = 1, color = "yellow", linetype =
"dashed") +
  labs(title = "Actual vs. Predicted Close Prices", x = "Actual Close Price",
y = "Predicted Close Price") +
  scale_color_manual(values = c("Actual" = "green", "Predicted" = "red")) +
  theme_minimal()

```

Mean Squared Error: 6.890584e-06

R-squared: 0.9999634

| | Date | Actual_Close | Predicted_Close |
|---|------------|--------------|-----------------|
| 1 | 26-12-1980 | 0.227906841 | 0.225024343 |
| 2 | 29-12-1980 | 0.232557703 | 0.233816743 |

| | | | |
|----|------------|-------------|-------------|
| 3 | 30-12-1980 | 0.224418694 | 0.227857500 |
| 4 | 31-12-1980 | 0.215116970 | 0.218303949 |
| 5 | 02-01-1981 | 0.218605116 | 0.219520748 |
| 6 | 05-01-1981 | 0.211628823 | 0.213852823 |
| 7 | 06-01-1981 | 0.197674152 | 0.200818866 |
| 8 | 07-01-1981 | 0.184884281 | 0.187671930 |
| 9 | 08-01-1981 | 0.179070703 | 0.180678800 |
| 10 | 09-01-1981 | 0.194186005 | 0.192684636 |
| 11 | 12-01-1981 | 0.191860574 | 0.193086058 |
| 12 | 13-01-1981 | 0.181396134 | 0.184125245 |
| 13 | 14-01-1981 | 0.182558849 | 0.183452323 |
| 14 | 15-01-1981 | 0.188372427 | 0.188406155 |
| 15 | 16-01-1981 | 0.186046996 | 0.187426209 |
| 16 | 19-01-1981 | 0.203487730 | 0.201961815 |
| 17 | 20-01-1981 | 0.194186005 | 0.196826518 |
| 18 | 21-01-1981 | 0.199999583 | 0.200522989 |
| 19 | 22-01-1981 | 0.203487730 | 0.204195186 |
| 20 | 23-01-1981 | 0.202325014 | 0.203804284 |
| 21 | 26-01-1981 | 0.197674152 | 0.199667722 |
| 22 | 27-01-1981 | 0.195348721 | 0.196894407 |
| 23 | 28-01-1981 | 0.186046996 | 0.188516960 |
| 24 | 29-01-1981 | 0.175582556 | 0.178153366 |
| 25 | 30-01-1981 | 0.160465170 | 0.163622826 |
| 26 | 02-02-1981 | 0.145349867 | 0.148453265 |
| 27 | 03-02-1981 | 0.154651592 | 0.153667688 |
| 28 | 04-02-1981 | 0.163953316 | 0.162827551 |
| 29 | 05-02-1981 | 0.163953316 | 0.164715052 |
| 30 | 06-02-1981 | 0.165116032 | 0.165950820 |
| 31 | 09-02-1981 | 0.151163445 | 0.154554188 |
| 32 | 10-02-1981 | 0.151163445 | 0.152175352 |

| | | | |
|----|------------|-------------|-------------|
| 33 | 11-02-1981 | 0.143024436 | 0.145152479 |
| 34 | 12-02-1981 | 0.140696921 | 0.141873002 |
| 35 | 13-02-1981 | 0.134883343 | 0.136584789 |
| 36 | 17-02-1981 | 0.140696921 | 0.140325159 |
| 37 | 18-02-1981 | 0.151163445 | 0.149835259 |
| 38 | 19-02-1981 | 0.136046059 | 0.139540315 |
| 39 | 20-02-1981 | 0.123256187 | 0.126737833 |
| 40 | 23-02-1981 | 0.126744334 | 0.126880288 |
| 41 | 24-02-1981 | 0.118605325 | 0.120588593 |
| 42 | 25-02-1981 | 0.132557912 | 0.130523607 |
| 43 | 26-02-1981 | 0.136046059 | 0.135758296 |
| 44 | 27-02-1981 | 0.144187151 | 0.143428341 |
| 45 | 02-03-1981 | 0.145349867 | 0.145985693 |
| 46 | 03-03-1981 | 0.141861720 | 0.143538326 |
| 47 | 04-03-1981 | 0.139534205 | 0.140975416 |
| 48 | 05-03-1981 | 0.138371490 | 0.139443338 |
| 49 | 06-03-1981 | 0.136046059 | 0.137250051 |
| 50 | 09-03-1981 | 0.117442609 | 0.121739097 |
| 51 | 10-03-1981 | 0.106976085 | 0.109898366 |
| 52 | 11-03-1981 | 0.098837076 | 0.101004168 |
| 53 | 12-03-1981 | 0.106976085 | 0.105767541 |
| 54 | 13-03-1981 | 0.104650654 | 0.105306365 |
| 55 | 16-03-1981 | 0.112791747 | 0.111703269 |
| 56 | 17-03-1981 | 0.123256187 | 0.121573180 |
| 57 | 18-03-1981 | 0.137208774 | 0.134962291 |
| 58 | 19-03-1981 | 0.134883343 | 0.136106238 |
| 59 | 20-03-1981 | 0.137208774 | 0.137910649 |
| 60 | 23-03-1981 | 0.146512583 | 0.145643234 |
| 61 | 24-03-1981 | 0.145349867 | 0.146400258 |
| 62 | 25-03-1981 | 0.140696921 | 0.142616868 |

| | | | |
|----|------------|-------------|-------------|
| 63 | 26-03-1981 | 0.136046059 | 0.137898862 |
| 64 | 27-03-1981 | 0.127907049 | 0.130270362 |
| 65 | 30-03-1981 | 0.127907049 | 0.128655940 |
| 66 | 31-03-1981 | 0.125581618 | 0.126586676 |
| 67 | 01-04-1981 | 0.123256187 | 0.124342859 |
| 68 | 02-04-1981 | 0.143024436 | 0.139868051 |
| 69 | 03-04-1981 | 0.144187151 | 0.144421190 |
| 70 | 06-04-1981 | 0.139534205 | 0.141442567 |
| 71 | 07-04-1981 | 0.137208774 | 0.138713017 |
| 72 | 08-04-1981 | 0.148838014 | 0.147501707 |
| 73 | 09-04-1981 | 0.153488876 | 0.153295845 |
| 74 | 10-04-1981 | 0.156977023 | 0.157293960 |
| 75 | 13-04-1981 | 0.156977023 | 0.158017695 |
| 76 | 14-04-1981 | 0.156977023 | 0.158032820 |
| 77 | 15-04-1981 | 0.144187151 | 0.147458911 |
| 78 | 16-04-1981 | 0.130232481 | 0.133742601 |
| 79 | 20-04-1981 | 0.137208774 | 0.136665285 |
| 80 | 21-04-1981 | 0.153488876 | 0.150898442 |
| 81 | 22-04-1981 | 0.162790601 | 0.161705822 |
| 82 | 23-04-1981 | 0.169766894 | 0.169580162 |
| 83 | 24-04-1981 | 0.167441463 | 0.169078112 |
| 84 | 27-04-1981 | 0.165116032 | 0.166790217 |
| 85 | 28-04-1981 | 0.160465170 | 0.162364841 |
| 86 | 29-04-1981 | 0.156977023 | 0.158552453 |
| 87 | 30-04-1981 | 0.161627885 | 0.161674798 |
| 88 | 01-05-1981 | 0.161627885 | 0.162422627 |
| 89 | 04-05-1981 | 0.160465170 | 0.161592126 |
| 90 | 05-05-1981 | 0.159302454 | 0.160440624 |
| 91 | 06-05-1981 | 0.152326160 | 0.154436737 |
| 92 | 07-05-1981 | 0.155814307 | 0.156100243 |

| | | | |
|-----|------------|-------------|-------------|
| 93 | 08-05-1981 | 0.158139738 | 0.158483475 |
| 94 | 11-05-1981 | 0.152326160 | 0.154195771 |
| 95 | 12-05-1981 | 0.152326160 | 0.153265566 |
| 96 | 13-05-1981 | 0.151163445 | 0.152176857 |
| 97 | 14-05-1981 | 0.147675298 | 0.149114996 |
| 98 | 15-05-1981 | 0.153488876 | 0.153283119 |
| 99 | 18-05-1981 | 0.158139738 | 0.158066303 |
| 100 | 19-05-1981 | 0.153488876 | 0.155210584 |
| 101 | 20-05-1981 | 0.161627885 | 0.161205828 |
| 102 | 21-05-1981 | 0.176745272 | 0.174979925 |
| 103 | 22-05-1981 | 0.189535143 | 0.188405663 |
| 104 | 26-05-1981 | 0.188372427 | 0.189943239 |
| 105 | 27-05-1981 | 0.204650446 | 0.203541905 |
| 106 | 28-05-1981 | 0.204650446 | 0.206097066 |
| 107 | 29-05-1981 | 0.205813161 | 0.207232445 |
| 108 | 01-06-1981 | 0.205813161 | 0.207273558 |
| 109 | 02-06-1981 | 0.190697859 | 0.194301516 |
| 110 | 03-06-1981 | 0.190697859 | 0.191853493 |
| 111 | 04-06-1981 | 0.196511436 | 0.196583360 |
| 112 | 05-06-1981 | 0.191860574 | 0.193591297 |
| 113 | 08-06-1981 | 0.181396134 | 0.184086621 |
| 114 | 09-06-1981 | 0.187209712 | 0.187330395 |
| 115 | 10-06-1981 | 0.190697859 | 0.191084176 |
| 116 | 11-06-1981 | 0.203487730 | 0.202657536 |
| 117 | 12-06-1981 | 0.199999583 | 0.201796517 |
| 118 | 15-06-1981 | 0.198836868 | 0.200417995 |
| 119 | 16-06-1981 | 0.193023290 | 0.195149064 |
| 120 | 17-06-1981 | 0.188372427 | 0.190211475 |
| 121 | 18-06-1981 | 0.187209712 | 0.188405424 |
| 122 | 19-06-1981 | 0.179070703 | 0.181280583 |

| | | | |
|-----|------------|-------------|-------------|
| 123 | 22-06-1981 | 0.168604179 | 0.171164513 |
| 124 | 23-06-1981 | 0.173255041 | 0.173346817 |
| 125 | 24-06-1981 | 0.166278748 | 0.168123335 |
| 126 | 25-06-1981 | 0.172092325 | 0.172045082 |
| 127 | 26-06-1981 | 0.168604179 | 0.170009136 |
| 128 | 29-06-1981 | 0.159302454 | 0.161807641 |
| 129 | 30-06-1981 | 0.139534205 | 0.143774718 |
| 130 | 01-07-1981 | 0.137208774 | 0.138390839 |
| 131 | 02-07-1981 | 0.137208774 | 0.137649998 |
| 132 | 06-07-1981 | 0.129069765 | 0.131052196 |
| 133 | 07-07-1981 | 0.131395196 | 0.131654546 |
| 134 | 08-07-1981 | 0.140696921 | 0.139520884 |
| 135 | 09-07-1981 | 0.122093471 | 0.126187056 |
| 136 | 10-07-1981 | 0.104650654 | 0.109070532 |
| 137 | 13-07-1981 | 0.109303600 | 0.109154649 |
| 138 | 14-07-1981 | 0.118605325 | 0.116952442 |
| 139 | 15-07-1981 | 0.124418903 | 0.123568490 |
| 140 | 16-07-1981 | 0.130232481 | 0.129718378 |
| 141 | 17-07-1981 | 0.138371490 | 0.137554318 |
| 142 | 20-07-1981 | 0.122093471 | 0.126146987 |
| 143 | 21-07-1981 | 0.120930756 | 0.122354575 |
| 144 | 22-07-1981 | 0.108138801 | 0.111359976 |
| 145 | 23-07-1981 | 0.113954462 | 0.113528334 |
| 146 | 24-07-1981 | 0.120930756 | 0.119843058 |
| 147 | 27-07-1981 | 0.130232481 | 0.128836751 |
| 148 | 28-07-1981 | 0.122093471 | 0.124367639 |
| 149 | 29-07-1981 | 0.118605325 | 0.120341070 |
| 150 | 30-07-1981 | 0.126744334 | 0.125898227 |
| 151 | 31-07-1981 | 0.130232481 | 0.130057096 |
| 152 | 03-08-1981 | 0.127907049 | 0.129103735 |

| | | | |
|-----|------------|-------------|-------------|
| 153 | 04-08-1981 | 0.131395196 | 0.131580904 |
| 154 | 05-08-1981 | 0.138371490 | 0.137741685 |
| 155 | 06-08-1981 | 0.132557912 | 0.134425521 |
| 156 | 07-08-1981 | 0.132557912 | 0.133530378 |
| 157 | 10-08-1981 | 0.132557912 | 0.133330747 |
| 158 | 11-08-1981 | 0.125581618 | 0.127673045 |
| 159 | 12-08-1981 | 0.120930756 | 0.122648299 |
| 160 | 13-08-1981 | 0.113954462 | 0.116003022 |
| 161 | 14-08-1981 | 0.110466316 | 0.111813970 |
| 162 | 17-08-1981 | 0.103487938 | 0.105443485 |
| 163 | 18-08-1981 | 0.098837076 | 0.100401156 |
| 164 | 19-08-1981 | 0.096511645 | 0.097536221 |
| 165 | 20-08-1981 | 0.098837076 | 0.098836087 |
| 166 | 21-08-1981 | 0.084884489 | 0.088304587 |
| 167 | 24-08-1981 | 0.073255249 | 0.076680824 |
| 168 | 25-08-1981 | 0.077908195 | 0.077580675 |
| 169 | 26-08-1981 | 0.074417965 | 0.075371854 |
| 170 | 27-08-1981 | 0.075580681 | 0.075809486 |
| 171 | 28-08-1981 | 0.084884489 | 0.083166674 |
| 172 | 31-08-1981 | 0.084884489 | 0.085127838 |
| 173 | 01-09-1981 | 0.096511645 | 0.094495289 |
| 174 | 02-09-1981 | 0.099999792 | 0.099570088 |
| 175 | 03-09-1981 | 0.089535351 | 0.092597522 |
| 176 | 04-09-1981 | 0.087209920 | 0.088801391 |
| 177 | 08-09-1981 | 0.081396342 | 0.083354868 |
| 178 | 09-09-1981 | 0.081396342 | 0.082027353 |
| 179 | 10-09-1981 | 0.082559058 | 0.082716219 |
| 180 | 11-09-1981 | 0.080233627 | 0.081189685 |
| 181 | 14-09-1981 | 0.074417965 | 0.076341510 |
| 182 | 15-09-1981 | 0.069767103 | 0.071539752 |

| | | | |
|-----|------------|-------------|-------------|
| 183 | 16-09-1981 | 0.066278956 | 0.067702793 |
| 184 | 17-09-1981 | 0.061628094 | 0.063260637 |
| 185 | 18-09-1981 | 0.062790809 | 0.063076280 |
| 186 | 21-09-1981 | 0.063953525 | 0.064035386 |
| 187 | 22-09-1981 | 0.054651800 | 0.057319608 |
| 188 | 23-09-1981 | 0.051163653 | 0.052868593 |
| 189 | 24-09-1981 | 0.050000938 | 0.050876442 |
| 190 | 25-09-1981 | 0.030232689 | 0.035671834 |
| 191 | 28-09-1981 | 0.031395405 | 0.032370754 |
| 192 | 29-09-1981 | 0.038371698 | 0.036865715 |
| 193 | 30-09-1981 | 0.039534414 | 0.039214980 |
| 194 | 01-10-1981 | 0.039534414 | 0.039922822 |
| 195 | 02-10-1981 | 0.051163653 | 0.048667934 |
| 196 | 05-10-1981 | 0.055814516 | 0.054632794 |
| 197 | 06-10-1981 | 0.054651800 | 0.055357873 |
| 198 | 07-10-1981 | 0.063953525 | 0.062290482 |
| 199 | 08-10-1981 | 0.069767103 | 0.068534903 |
| 200 | 09-10-1981 | 0.070929818 | 0.071048751 |
| 201 | 12-10-1981 | 0.076745480 | 0.075957268 |
| 202 | 13-10-1981 | 0.076745480 | 0.077206679 |
| 203 | 14-10-1981 | 0.066278956 | 0.069478944 |
| 204 | 15-10-1981 | 0.069767103 | 0.069907330 |
| 205 | 16-10-1981 | 0.067441671 | 0.068355106 |
| 206 | 19-10-1981 | 0.070929818 | 0.070622981 |
| 207 | 20-10-1981 | 0.080233627 | 0.078371041 |
| 208 | 21-10-1981 | 0.080233627 | 0.080468468 |
| 209 | 22-10-1981 | 0.079070911 | 0.080008842 |
| 210 | 23-10-1981 | 0.074417965 | 0.076223254 |
| 211 | 26-10-1981 | 0.074417965 | 0.075162224 |
| 212 | 27-10-1981 | 0.077908195 | 0.077586465 |

| | | | |
|-----|------------|-------------|-------------|
| 213 | 28-10-1981 | 0.083721773 | 0.082730666 |
| 214 | 29-10-1981 | 0.081396342 | 0.082312465 |
| 215 | 30-10-1981 | 0.083721773 | 0.083889388 |
| 216 | 02-11-1981 | 0.083721773 | 0.084267728 |
| 217 | 03-11-1981 | 0.081396342 | 0.082534067 |
| 218 | 04-11-1981 | 0.076745480 | 0.078477077 |
| 219 | 05-11-1981 | 0.063953525 | 0.067625098 |
| 220 | 06-11-1981 | 0.065116240 | 0.065718561 |
| 221 | 09-11-1981 | 0.067441671 | 0.067198060 |
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| 1784 | 15-01-1988 | 0.695349763 | 0.700178087 |
| 1785 | 18-01-1988 | 0.693022248 | 0.697141171 |
| 1786 | 19-01-1988 | 0.693022248 | 0.697168648 |
| 1787 | 20-01-1988 | 0.637209816 | 0.638684630 |
| 1788 | 21-01-1988 | 0.644186110 | 0.648848653 |
| 1789 | 22-01-1988 | 0.627906008 | 0.632099688 |
| 1790 | 25-01-1988 | 0.658138697 | 0.663715065 |
| 1791 | 26-01-1988 | 0.637209816 | 0.640627623 |
| 1792 | 27-01-1988 | 0.637209816 | 0.640926838 |
| 1793 | 28-01-1988 | 0.665117074 | 0.670527101 |
| 1794 | 29-01-1988 | 0.669767936 | 0.674176514 |
| 1795 | 01-02-1988 | 0.674418798 | 0.678454340 |
| 1796 | 02-02-1988 | 0.665117074 | 0.668746769 |
| 1797 | 03-02-1988 | 0.632558954 | 0.635184109 |
| 1798 | 04-02-1988 | 0.637209816 | 0.641616464 |
| 1799 | 05-02-1988 | 0.616278852 | 0.619945049 |
| 1800 | 08-02-1988 | 0.618604283 | 0.622744560 |
| 1801 | 09-02-1988 | 0.637209816 | 0.642203569 |
| 1802 | 10-02-1988 | 0.660464128 | 0.665510774 |

| | | | |
|------|------------|-------------|-------------|
| 1803 | 11-02-1988 | 0.653487834 | 0.657102346 |
| 1804 | 12-02-1988 | 0.660464128 | 0.664497077 |
| 1805 | 16-02-1988 | 0.665117074 | 0.669466257 |
| 1806 | 17-02-1988 | 0.676744230 | 0.681375146 |
| 1807 | 18-02-1988 | 0.674418798 | 0.678471148 |
| 1808 | 19-02-1988 | 0.674418798 | 0.678494334 |
| 1809 | 22-02-1988 | 0.702326056 | 0.707870185 |
| 1810 | 23-02-1988 | 0.693022248 | 0.696814060 |
| 1811 | 24-02-1988 | 0.683720523 | 0.687193990 |
| 1812 | 25-02-1988 | 0.674418798 | 0.678307891 |
| 1813 | 26-02-1988 | 0.674418798 | 0.678889573 |
| 1814 | 29-02-1988 | 0.697675194 | 0.703284085 |
| 1815 | 01-03-1988 | 0.702326056 | 0.706846774 |
| 1816 | 02-03-1988 | 0.730233314 | 0.735643029 |
| 1817 | 03-03-1988 | 0.762791434 | 0.768546462 |
| 1818 | 04-03-1988 | 0.769767728 | 0.773812592 |
| 1819 | 07-03-1988 | 0.769767728 | 0.773455203 |
| 1820 | 08-03-1988 | 0.758138488 | 0.761622667 |
| 1821 | 09-03-1988 | 0.767442297 | 0.772610486 |
| 1822 | 10-03-1988 | 0.739535039 | 0.742529392 |
| 1823 | 11-03-1988 | 0.748836763 | 0.754319072 |
| 1824 | 14-03-1988 | 0.758138488 | 0.763750136 |
| 1825 | 15-03-1988 | 0.734884176 | 0.738013446 |
| 1826 | 16-03-1988 | 0.755813057 | 0.761897147 |
| 1827 | 17-03-1988 | 0.734884176 | 0.738388956 |
| 1828 | 18-03-1988 | 0.730233314 | 0.734594345 |
| 1829 | 21-03-1988 | 0.713953212 | 0.717963874 |
| 1830 | 22-03-1988 | 0.716278643 | 0.721351564 |
| 1831 | 23-03-1988 | 0.688371386 | 0.691641569 |
| 1832 | 24-03-1988 | 0.658138697 | 0.661224902 |

| | | | |
|------|------------|-------------|-------------|
| 1833 | 25-03-1988 | 0.644186110 | 0.648462296 |
| 1834 | 28-03-1988 | 0.669767936 | 0.675952613 |
| 1835 | 29-03-1988 | 0.660464128 | 0.664518833 |
| 1836 | 30-03-1988 | 0.632558954 | 0.635146379 |
| 1837 | 31-03-1988 | 0.641860678 | 0.646440148 |
| 1838 | 04-04-1988 | 0.618604283 | 0.622037768 |
| 1839 | 05-04-1988 | 0.627906008 | 0.632247806 |
| 1840 | 06-04-1988 | 0.674418798 | 0.680633783 |
| 1841 | 07-04-1988 | 0.655813265 | 0.659196496 |
| 1842 | 08-04-1988 | 0.660464128 | 0.664167464 |
| 1843 | 11-04-1988 | 0.669767936 | 0.674387693 |
| 1844 | 12-04-1988 | 0.674418798 | 0.678809464 |
| 1845 | 13-04-1988 | 0.665117074 | 0.668797374 |
| 1846 | 14-04-1988 | 0.632558954 | 0.635194302 |
| 1847 | 15-04-1988 | 0.632558954 | 0.636772692 |
| 1848 | 18-04-1988 | 0.641860678 | 0.646811247 |
| 1849 | 19-04-1988 | 0.646511541 | 0.650936782 |
| 1850 | 20-04-1988 | 0.637209816 | 0.640810251 |
| 1851 | 21-04-1988 | 0.632558954 | 0.636309981 |
| 1852 | 22-04-1988 | 0.644186110 | 0.648788214 |
| 1853 | 25-04-1988 | 0.658138697 | 0.662902415 |
| 1854 | 26-04-1988 | 0.669767936 | 0.674295664 |
| 1855 | 27-04-1988 | 0.674418798 | 0.678604722 |
| 1856 | 28-04-1988 | 0.667442505 | 0.671129823 |
| 1857 | 29-04-1988 | 0.660464128 | 0.664239109 |
| 1858 | 02-05-1988 | 0.660464128 | 0.664736509 |
| 1859 | 03-05-1988 | 0.674418798 | 0.679382145 |
| 1860 | 04-05-1988 | 0.679069661 | 0.683545351 |
| 1861 | 05-05-1988 | 0.674418798 | 0.678255498 |
| 1862 | 06-05-1988 | 0.665117074 | 0.668799877 |

| | | | |
|------|------------|-------------|-------------|
| 1863 | 09-05-1988 | 0.655813265 | 0.659640312 |
| 1864 | 10-05-1988 | 0.658138697 | 0.662593842 |
| 1865 | 11-05-1988 | 0.632558954 | 0.635737836 |
| 1866 | 12-05-1988 | 0.637209816 | 0.641530752 |
| 1867 | 13-05-1988 | 0.651162403 | 0.656187534 |
| 1868 | 16-05-1988 | 0.665117074 | 0.669874012 |
| 1869 | 17-05-1988 | 0.651162403 | 0.654508650 |
| 1870 | 18-05-1988 | 0.637209816 | 0.640468597 |
| 1871 | 19-05-1988 | 0.623255145 | 0.626836479 |
| 1872 | 20-05-1988 | 0.618604283 | 0.622632682 |
| 1873 | 23-05-1988 | 0.604651696 | 0.608303070 |
| 1874 | 24-05-1988 | 0.620929714 | 0.625541747 |
| 1875 | 25-05-1988 | 0.613953421 | 0.617875755 |
| 1876 | 26-05-1988 | 0.630233522 | 0.634598494 |
| 1877 | 27-05-1988 | 0.637209816 | 0.641541123 |
| 1878 | 31-05-1988 | 0.669767936 | 0.674923182 |
| 1879 | 01-06-1988 | 0.688371386 | 0.693243861 |
| 1880 | 02-06-1988 | 0.674418798 | 0.677644730 |
| 1881 | 03-06-1988 | 0.697675194 | 0.702594101 |
| 1882 | 06-06-1988 | 0.716278643 | 0.721525908 |
| 1883 | 07-06-1988 | 0.716278643 | 0.720296979 |
| 1884 | 08-06-1988 | 0.734884176 | 0.739856362 |
| 1885 | 09-06-1988 | 0.706976919 | 0.709696352 |
| 1886 | 10-06-1988 | 0.725580368 | 0.730866790 |
| 1887 | 13-06-1988 | 0.734884176 | 0.740067959 |
| 1888 | 14-06-1988 | 0.739535039 | 0.744009197 |
| 1889 | 15-06-1988 | 0.748836763 | 0.753611743 |
| 1890 | 16-06-1988 | 0.725580368 | 0.728527844 |
| 1891 | 17-06-1988 | 0.730233314 | 0.735073566 |
| 1892 | 20-06-1988 | 0.718604075 | 0.722779751 |

| | | | |
|------|------------|-------------|-------------|
| 1893 | 21-06-1988 | 0.732558745 | 0.738042414 |
| 1894 | 22-06-1988 | 0.746511332 | 0.751926661 |
| 1895 | 23-06-1988 | 0.734884176 | 0.738442302 |
| 1896 | 24-06-1988 | 0.734884176 | 0.739267349 |
| 1897 | 27-06-1988 | 0.725580368 | 0.729710519 |
| 1898 | 28-06-1988 | 0.758138488 | 0.764708638 |
| 1899 | 29-06-1988 | 0.760466003 | 0.764978290 |
| 1900 | 30-06-1988 | 0.758138488 | 0.762033939 |
| 1901 | 01-07-1988 | 0.762791434 | 0.767503142 |
| 1902 | 05-07-1988 | 0.776744021 | 0.782135606 |
| 1903 | 06-07-1988 | 0.762791434 | 0.766288638 |
| 1904 | 07-07-1988 | 0.751162195 | 0.755028546 |
| 1905 | 08-07-1988 | 0.739535039 | 0.743855894 |
| 1906 | 11-07-1988 | 0.737209608 | 0.742197633 |
| 1907 | 12-07-1988 | 0.730233314 | 0.734833598 |
| 1908 | 13-07-1988 | 0.730233314 | 0.735119641 |
| 1909 | 14-07-1988 | 0.734884176 | 0.739961147 |
| 1910 | 15-07-1988 | 0.734884176 | 0.739490271 |
| 1911 | 18-07-1988 | 0.744185901 | 0.749251664 |
| 1912 | 19-07-1988 | 0.730233314 | 0.733866692 |
| 1913 | 20-07-1988 | 0.720929506 | 0.724932373 |
| 1914 | 21-07-1988 | 0.697675194 | 0.701170146 |
| 1915 | 22-07-1988 | 0.688371386 | 0.692779779 |
| 1916 | 25-07-1988 | 0.693022248 | 0.698260128 |
| 1917 | 26-07-1988 | 0.693022248 | 0.697699785 |
| 1918 | 27-07-1988 | 0.693022248 | 0.697420120 |
| 1919 | 28-07-1988 | 0.690696817 | 0.694938302 |
| 1920 | 29-07-1988 | 0.723254937 | 0.729318619 |
| 1921 | 01-08-1988 | 0.734884176 | 0.739715815 |
| 1922 | 02-08-1988 | 0.727907883 | 0.731354475 |

| | | | |
|------|------------|-------------|-------------|
| 1923 | 03-08-1988 | 0.730233314 | 0.734510362 |
| 1924 | 04-08-1988 | 0.727907883 | 0.732242346 |
| 1925 | 05-08-1988 | 0.720929506 | 0.725015044 |
| 1926 | 08-08-1988 | 0.716278643 | 0.720610440 |
| 1927 | 09-08-1988 | 0.706976919 | 0.711129367 |
| 1928 | 10-08-1988 | 0.676744230 | 0.679741800 |
| 1929 | 11-08-1988 | 0.702326056 | 0.708533883 |
| 1930 | 12-08-1988 | 0.688371386 | 0.692411900 |
| 1931 | 15-08-1988 | 0.665117074 | 0.668092966 |
| 1932 | 16-08-1988 | 0.688371386 | 0.694118023 |
| 1933 | 17-08-1988 | 0.679069661 | 0.683201611 |
| 1934 | 18-08-1988 | 0.688371386 | 0.692930222 |
| 1935 | 19-08-1988 | 0.655813265 | 0.658499956 |
| 1936 | 22-08-1988 | 0.637209816 | 0.640495241 |
| 1937 | 23-08-1988 | 0.632558954 | 0.636935115 |
| 1938 | 24-08-1988 | 0.655813265 | 0.661325276 |
| 1939 | 25-08-1988 | 0.644186110 | 0.647953272 |
| 1940 | 26-08-1988 | 0.646511541 | 0.650431395 |
| 1941 | 29-08-1988 | 0.658138697 | 0.662799001 |
| 1942 | 30-08-1988 | 0.658138697 | 0.662266612 |
| 1943 | 31-08-1988 | 0.639535247 | 0.642701387 |
| 1944 | 01-09-1988 | 0.620929714 | 0.624163568 |
| 1945 | 02-09-1988 | 0.637209816 | 0.642115176 |
| 1946 | 06-09-1988 | 0.620929714 | 0.624656916 |
| 1947 | 07-09-1988 | 0.609302558 | 0.612662971 |
| 1948 | 08-09-1988 | 0.618604283 | 0.623003602 |
| 1949 | 09-09-1988 | 0.651162403 | 0.656575322 |
| 1950 | 12-09-1988 | 0.660464128 | 0.664927602 |
| 1951 | 13-09-1988 | 0.660464128 | 0.664192915 |
| 1952 | 14-09-1988 | 0.679069661 | 0.683778703 |

| | | | |
|------|------------|-------------|-------------|
| 1953 | 15-09-1988 | 0.672093367 | 0.675973117 |
| 1954 | 16-09-1988 | 0.683720523 | 0.688230753 |
| 1955 | 19-09-1988 | 0.674418798 | 0.678280652 |
| 1956 | 20-09-1988 | 0.669767936 | 0.673686504 |
| 1957 | 21-09-1988 | 0.693022248 | 0.698476315 |
| 1958 | 22-09-1988 | 0.716278643 | 0.721742749 |
| 1959 | 23-09-1988 | 0.711627781 | 0.715335250 |
| 1960 | 26-09-1988 | 0.693022248 | 0.695990145 |
| 1961 | 27-09-1988 | 0.704651487 | 0.709645331 |
| 1962 | 28-09-1988 | 0.706976919 | 0.711697817 |
| 1963 | 29-09-1988 | 0.716278643 | 0.721059501 |
| 1964 | 30-09-1988 | 0.702326056 | 0.705874979 |
| 1965 | 03-10-1988 | 0.688371386 | 0.691954494 |
| 1966 | 04-10-1988 | 0.669767936 | 0.673416913 |
| 1967 | 05-10-1988 | 0.658138697 | 0.662225127 |
| 1968 | 06-10-1988 | 0.637209816 | 0.640830398 |
| 1969 | 07-10-1988 | 0.637209816 | 0.641679466 |
| 1970 | 10-10-1988 | 0.613953421 | 0.617349029 |
| 1971 | 11-10-1988 | 0.623255145 | 0.627711296 |
| 1972 | 12-10-1988 | 0.618604283 | 0.622687161 |
| 1973 | 13-10-1988 | 0.623255145 | 0.627328575 |
| 1974 | 14-10-1988 | 0.618604283 | 0.622410893 |
| 1975 | 17-10-1988 | 0.613953421 | 0.617652118 |
| 1976 | 18-10-1988 | 0.630233522 | 0.634796262 |
| 1977 | 19-10-1988 | 0.641860678 | 0.646437228 |
| 1978 | 20-10-1988 | 0.669767936 | 0.674798846 |
| 1979 | 21-10-1988 | 0.660464128 | 0.664137125 |
| 1980 | 24-10-1988 | 0.641860678 | 0.644826770 |
| 1981 | 25-10-1988 | 0.639535247 | 0.643534541 |
| 1982 | 26-10-1988 | 0.627906008 | 0.631786346 |

| | | | |
|------|------------|-------------|-------------|
| 1983 | 27-10-1988 | 0.623255145 | 0.627213776 |
| 1984 | 28-10-1988 | 0.613953421 | 0.617757678 |
| 1985 | 31-10-1988 | 0.616278852 | 0.620400846 |
| 1986 | 01-11-1988 | 0.604651696 | 0.608275175 |
| 1987 | 02-11-1988 | 0.590697025 | 0.594004571 |
| 1988 | 03-11-1988 | 0.588371594 | 0.592143476 |
| 1989 | 04-11-1988 | 0.600000833 | 0.604342401 |
| 1990 | 07-11-1988 | 0.595347887 | 0.599162459 |
| 1991 | 08-11-1988 | 0.613953421 | 0.618249655 |

This Code for XGBOOST on the Data is performed by every group member.

XGBOOST:-

```
install.packages('tidyverse')
library(tidyverse)
install.packages('plotly')
library(plotly)
install.packages('xgboost')
library(xgboost)

# Load and preprocess the data
df <- read.csv('/content/NFLX-PRE.csv')

# ... (Rest of your preprocessing code)

# Prepare data for XGBoost
X <- sequences
y <- targets
```



```

# Create the XGBoost model
xgb_model <- xgboost(data = X, label = y, nrounds = 100, verbose = 0)

# Make predictions using the XGBoost model
xgb_predictions <- predict(xgb_model, data.matrix(all_sequences))

# Inverse normalize predictions
xgb_predictions <- xgb_predictions * (max(df$Close) - min(df$Close)) +
min(df$Close)

# Calculate Mean Squared Error for XGBoost
xgb_mse <- mean((df$Close[(sequence_length):(nrow(df))]] - xgb_predictions)^2)
cat("XGBoost Mean Squared Error:", xgb_mse, "\n")

# Calculate R-squared value for XGBoost
xgb_r_squared <- (cor(actual_values, xgb_predictions))^2
cat("XGBoost R-squared:", xgb_r_squared, "\n")

# Calculate accuracy in percentage for XGBoost
xgb_accuracy <- sum(sign(xgb_predictions -
df$Close[(sequence_length):(nrow(df))]]) == 0) / length(xgb_predictions) * 100
cat("XGBoost Accuracy:", xgb_accuracy, "%\n")

# Print the XGBoost predictions
xgb_output_df <- data.frame(Date = df$Date[(sequence_length):(nrow(df))],
Actual_Close = df$Close[(sequence_length):(nrow(df))],
XGBoost_Predicted_Close = xgb_predictions)
print(xgb_output_df)

# Create a scatter plot for XGBoost predictions

```

```
# Create a scatter plot for XGBoost predictions
ggplot(xgb_output_df, aes(x = Actual_Close, y = XGBoost_Predicted_Close)) +
  geom_point(aes(color = "Actual"), alpha = 0.5) +
  geom_point(aes(y = Actual_Close, color = "XGBoost Predicted"), data =
xgb_output_df, alpha = 0.5) +
  geom_abline(intercept = 0, slope = 1, color = "yellow", linetype =
"dashed") +
  labs(title = "XGBoost Predicted Close Prices", x = "Actual Close Price", y
= "XGBoost Predicted Close Price") +
  scale_color_manual(values = c("Actual" = "blue", "XGBoost Predicted" =
"red")) +
  theme_minimal()
```

XGBoost Mean Squared Error: 8.107431e-07

XGBoost R-squared: 0.9999852

XGBoost Accuracy: 0 %

| | Date | Actual_Close | XGBoost_Predicted_Close |
|----|------------|--------------|-------------------------|
| 1 | 26-12-1980 | 0.227906841 | 0.227561578 |
| 2 | 29-12-1980 | 0.232557703 | 0.232805565 |
| 3 | 30-12-1980 | 0.224418694 | 0.224379078 |
| 4 | 31-12-1980 | 0.215116970 | 0.215643629 |
| 5 | 02-01-1981 | 0.218605116 | 0.217375726 |
| 6 | 05-01-1981 | 0.211628823 | 0.213954076 |
| 7 | 06-01-1981 | 0.197674152 | 0.196816087 |
| 8 | 07-01-1981 | 0.184884281 | 0.186891273 |
| 9 | 08-01-1981 | 0.179070703 | 0.179041967 |
| 10 | 09-01-1981 | 0.194186005 | 0.195222005 |
| 11 | 12-01-1981 | 0.191860574 | 0.191242084 |
| 12 | 13-01-1981 | 0.181396134 | 0.180907324 |
| 13 | 14-01-1981 | 0.182558849 | 0.180224657 |
| 14 | 15-01-1981 | 0.188372427 | 0.187859729 |
| 15 | 16-01-1981 | 0.186046996 | 0.186414406 |

| | | | |
|----|------------|-------------|-------------|
| 16 | 19-01-1981 | 0.203487730 | 0.202801719 |
| 17 | 20-01-1981 | 0.194186005 | 0.195549101 |
| 18 | 21-01-1981 | 0.199999583 | 0.202029794 |
| 19 | 22-01-1981 | 0.203487730 | 0.202951491 |
| 20 | 23-01-1981 | 0.202325014 | 0.202542573 |
| 21 | 26-01-1981 | 0.197674152 | 0.196681976 |
| 22 | 27-01-1981 | 0.195348721 | 0.196002930 |
| 23 | 28-01-1981 | 0.186046996 | 0.186891273 |
| 24 | 29-01-1981 | 0.175582556 | 0.176457107 |
| 25 | 30-01-1981 | 0.160465170 | 0.160996199 |
| 26 | 02-02-1981 | 0.145349867 | 0.144695431 |
| 27 | 03-02-1981 | 0.154651592 | 0.153787404 |
| 28 | 04-02-1981 | 0.163953316 | 0.164013356 |
| 29 | 05-02-1981 | 0.163953316 | 0.164013356 |
| 30 | 06-02-1981 | 0.165116032 | 0.165274367 |
| 31 | 09-02-1981 | 0.151163445 | 0.150382146 |
| 32 | 10-02-1981 | 0.151163445 | 0.150382146 |
| 33 | 11-02-1981 | 0.143024436 | 0.143166393 |
| 34 | 12-02-1981 | 0.140696921 | 0.141552225 |
| 35 | 13-02-1981 | 0.134883343 | 0.135005191 |
| 36 | 17-02-1981 | 0.140696921 | 0.141552225 |
| 37 | 18-02-1981 | 0.151163445 | 0.150382146 |
| 38 | 19-02-1981 | 0.136046059 | 0.135766566 |
| 39 | 20-02-1981 | 0.123256187 | 0.123587787 |
| 40 | 23-02-1981 | 0.126744334 | 0.126568824 |
| 41 | 24-02-1981 | 0.118605325 | 0.119387679 |
| 42 | 25-02-1981 | 0.132557912 | 0.132735342 |
| 43 | 26-02-1981 | 0.136046059 | 0.135855526 |
| 44 | 27-02-1981 | 0.144187151 | 0.144205704 |
| 45 | 02-03-1981 | 0.145349867 | 0.144677982 |

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|----|------------|-------------|-------------|
| 46 | 03-03-1981 | 0.141861720 | 0.142263889 |
| 47 | 04-03-1981 | 0.139534205 | 0.140723571 |
| 48 | 05-03-1981 | 0.138371490 | 0.137314588 |
| 49 | 06-03-1981 | 0.136046059 | 0.135855526 |
| 50 | 09-03-1981 | 0.117442609 | 0.115838349 |
| 51 | 10-03-1981 | 0.106976085 | 0.107496984 |
| 52 | 11-03-1981 | 0.098837076 | 0.098012693 |
| 53 | 12-03-1981 | 0.106976085 | 0.107496984 |
| 54 | 13-03-1981 | 0.104650654 | 0.104782529 |
| 55 | 16-03-1981 | 0.112791747 | 0.111801654 |
| 56 | 17-03-1981 | 0.123256187 | 0.123519920 |
| 57 | 18-03-1981 | 0.137208774 | 0.136767998 |
| 58 | 19-03-1981 | 0.134883343 | 0.134777695 |
| 59 | 20-03-1981 | 0.137208774 | 0.136767998 |
| 60 | 23-03-1981 | 0.146512583 | 0.147115022 |
| 61 | 24-03-1981 | 0.145349867 | 0.144677982 |
| 62 | 25-03-1981 | 0.140696921 | 0.141063198 |
| 63 | 26-03-1981 | 0.136046059 | 0.135855526 |
| 64 | 27-03-1981 | 0.127907049 | 0.127701864 |
| 65 | 30-03-1981 | 0.127907049 | 0.127701864 |
| 66 | 31-03-1981 | 0.125581618 | 0.125595152 |
| 67 | 01-04-1981 | 0.123256187 | 0.123519920 |
| 68 | 02-04-1981 | 0.143024436 | 0.143166393 |
| 69 | 03-04-1981 | 0.144187151 | 0.144188255 |
| 70 | 06-04-1981 | 0.139534205 | 0.140723571 |
| 71 | 07-04-1981 | 0.137208774 | 0.136767998 |
| 72 | 08-04-1981 | 0.148838014 | 0.148844182 |
| 73 | 09-04-1981 | 0.153488876 | 0.153262556 |
| 74 | 10-04-1981 | 0.156977023 | 0.157893449 |
| 75 | 13-04-1981 | 0.156977023 | 0.157893449 |

| | | | |
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| 76 | 14-04-1981 | 0.156977023 | 0.157893449 |
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| 1956 | 20-09-1988 | 0.669767936 | 0.669758797 |
| 1957 | 21-09-1988 | 0.693022248 | 0.692265868 |
| 1958 | 22-09-1988 | 0.716278643 | 0.716241658 |
| 1959 | 23-09-1988 | 0.711627781 | 0.714592934 |
| 1960 | 26-09-1988 | 0.693022248 | 0.692326367 |
| 1961 | 27-09-1988 | 0.704651487 | 0.704148054 |
| 1962 | 28-09-1988 | 0.706976919 | 0.704091549 |
| 1963 | 29-09-1988 | 0.716278643 | 0.716243148 |
| 1964 | 30-09-1988 | 0.702326056 | 0.702847302 |
| 1965 | 03-10-1988 | 0.688371386 | 0.689005077 |

| | | | |
|------|------------|-------------|-------------|
| 1966 | 04-10-1988 | 0.669767936 | 0.669673145 |
| 1967 | 05-10-1988 | 0.658138697 | 0.658517718 |
| 1968 | 06-10-1988 | 0.637209816 | 0.637839556 |
| 1969 | 07-10-1988 | 0.637209816 | 0.637236774 |
| 1970 | 10-10-1988 | 0.613953421 | 0.614264488 |
| 1971 | 11-10-1988 | 0.623255145 | 0.623670042 |
| 1972 | 12-10-1988 | 0.618604283 | 0.617511988 |
| 1973 | 13-10-1988 | 0.623255145 | 0.623670042 |
| 1974 | 14-10-1988 | 0.618604283 | 0.617511988 |
| 1975 | 17-10-1988 | 0.613953421 | 0.614389300 |
| 1976 | 18-10-1988 | 0.630233522 | 0.630255461 |
| 1977 | 19-10-1988 | 0.641860678 | 0.641565263 |
| 1978 | 20-10-1988 | 0.669767936 | 0.669758797 |
| 1979 | 21-10-1988 | 0.660464128 | 0.659330189 |
| 1980 | 24-10-1988 | 0.641860678 | 0.641565263 |
| 1981 | 25-10-1988 | 0.639535247 | 0.641066909 |
| 1982 | 26-10-1988 | 0.627906008 | 0.627914965 |
| 1983 | 27-10-1988 | 0.623255145 | 0.623334765 |
| 1984 | 28-10-1988 | 0.613953421 | 0.614389300 |
| 1985 | 31-10-1988 | 0.616278852 | 0.616281748 |
| 1986 | 01-11-1988 | 0.604651696 | 0.603287756 |
| 1987 | 02-11-1988 | 0.590697025 | 0.590804338 |
| 1988 | 03-11-1988 | 0.588371594 | 0.588256419 |
| 1989 | 04-11-1988 | 0.600000833 | 0.600618899 |
| 1990 | 07-11-1988 | 0.595347887 | 0.595356405 |
| 1991 | 08-11-1988 | 0.613953421 | 0.614389300 |

