Churn_LogisticRegression.R

2019-11-14

```r
##Multivariate Project
##TELECOM-CHURN-ANALYSIS
##Author : Priyanshi Bajpai

##Importing Libraries

library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 3.5.3
```

```r
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 3.5.3
```

```
##
## 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
```

```r
library (stringr)
```

```
## Warning: package 'stringr' was built under R version 3.5.3
```

```r
library(data.table)
```

```
## Warning: package 'data.table' was built under R version 3.5.3
```

```
##
## Attaching package: 'data.table'
```

```
## The following objects are masked from 'package:dplyr':
##
##     between, first, last
```

```r
library(grid)
library(gridExtra)
```

```
## Warning: package 'gridExtra' was built under R version 3.5.3
```

```
##
## Attaching package: 'gridExtra'
```

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

library(corrplot)

## Warning: package 'corrplot' was built under R version 3.5.3

## corrplot 0.84 loaded

library(scales)

## Warning: package 'scales' was built under R version 3.5.3

library(qqplotr)

## Warning: package 'qqplotr' was built under R version 3.5.3

##
## Attaching package: 'qqplotr'

## The following objects are masked from 'package:ggplot2':
##
##     stat_qq_line, StatQqLine

library(MASS)

##
## Attaching package: 'MASS'

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

library(DMwR)

## Warning: package 'DMwR' was built under R version 3.5.3

## Loading required package: lattice

library(car)

## Warning: package 'car' was built under R version 3.5.3

## Loading required package: carData

## Warning: package 'carData' was built under R version 3.5.2

##
## Attaching package: 'car'

## The following object is masked from 'package:dplyr':
##
##     recode
```

```r
library(e1071)
```

Warning: package 'e1071' was built under R version 3.5.3

```r
library(caret)
```

Warning: package 'caret' was built under R version 3.5.3

```r
library(caTools)
```

Warning: package 'caTools' was built under R version 3.5.3

```r
library(pROC)
```

Warning: package 'pROC' was built under R version 3.5.3

Type 'citation("pROC")' for a citation.

##
Attaching package: 'pROC'

The following objects are masked from 'package:stats':
##
cov, smooth, var

```r
library(tidyverse)
```

Warning: package 'tidyverse' was built under R version 3.5.3

-- Attaching packages --
tidyverse 1.2.1 --

v tibble 2.1.3   v readr   1.3.1
v tidyr   1.0.0   v purrr   0.3.3
v tibble 2.1.3   v forcats 0.4.0

Warning: package 'tibble' was built under R version 3.5.3

Warning: package 'tidyr' was built under R version 3.5.3

Warning: package 'readr' was built under R version 3.5.3

Warning: package 'purrr' was built under R version 3.5.3

Warning: package 'forcats' was built under R version 3.5.3

-- Conflicts --- tidyv
erse_conflicts() --
x data.table::between()   masks dplyr::between()
x readr::col_factor()   masks scales::col_factor()
x gridExtra::combine()   masks dplyr::combine()
x purrr::discard()   masks scales::discard()
x dplyr::filter()   masks stats::filter()
x data.table::first()   masks dplyr::first()
```

```
## x dplyr::lag()          masks stats::lag()
## x data.table::last()    masks dplyr::last()
## x purrr::lift()         masks caret::lift()
## x car::recode()         masks dplyr::recode()
## x MASS::select()        masks dplyr::select()
## x purrr::some()         masks car::some()
## x qqplotr::stat_qq_line() masks ggplot2::stat_qq_line()
## x purrr::transpose()    masks data.table::transpose()
```

```r
library(MVA)
```

```
## Warning: package 'MVA' was built under R version 3.5.3

## Loading required package: HSAUR2

## Warning: package 'HSAUR2' was built under R version 3.5.3

## Loading required package: tools
```

```r
library(GGally)
```

```
## Warning: package 'GGally' was built under R version 3.5.3

##
## Attaching package: 'GGally'

## The following object is masked from 'package:dplyr':
##
##     nasa
```

```r
library(gvlma)
```

```
## Warning: package 'gvlma' was built under R version 3.5.2
```

```r
library(psych)
```

```
## Warning: package 'psych' was built under R version 3.5.3

##
## Attaching package: 'psych'

## The following object is masked from 'package:car':
##
##     logit

## The following objects are masked from 'package:scales':
##
##     alpha, rescale

## The following objects are masked from 'package:ggplot2':
##
##     %+%, alpha
```

```r
library(cowplot)
```

```
## Warning: package 'cowplot' was built under R version 3.5.3

##
## **********************************************************
## Note: As of version 1.0.0, cowplot does not change the

##   default ggplot2 theme anymore. To recover the previous

##   behavior, execute:
##   theme_set(theme_cowplot())

## **********************************************************
```

```r
library(regclass)
```

```
## Warning: package 'regclass' was built under R version 3.5.3

## Loading required package: bestglm

## Warning: package 'bestglm' was built under R version 3.5.3

## Loading required package: leaps

## Warning: package 'leaps' was built under R version 3.5.3

## Loading required package: VGAM

## Warning: package 'VGAM' was built under R version 3.5.3

## Loading required package: stats4

## Loading required package: splines

##
## Attaching package: 'VGAM'

## The following objects are masked from 'package:psych':
##
##     fisherz, logistic, logit

## The following object is masked from 'package:tidyr':
##
##     fill

## The following object is masked from 'package:caret':
##
##     predictors

## The following object is masked from 'package:car':
##
##     logit

## Loading required package: rpart
```

```
## Loading required package: randomForest

## Warning: package 'randomForest' was built under R version 3.5.3

## randomForest 4.6-14

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

##
## Attaching package: 'randomForest'

## The following object is masked from 'package:psych':
##
##     outlier

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

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

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

## Important regclass change from 1.3:
## All functions that had a . in the name now have an _
## all.correlations -> all_correlations, cor.demo -> cor_demo, etc.

##
## Attaching package: 'regclass'

## The following object is masked from 'package:lattice':
##
##     qq
```

```r
library(stats)
library(e1071)
library(pROC)
```

##Importing Dataset and doing preliminary analysis

#Importing CSV file from drive on my local computer and viewing it

```r
tablechurn<-read.csv("C:/Users/SHIVANSHI/Desktop/Priyanshi/MVA/Telecom Churn
Analysis Data.csv")
tablechurn <- as.data.frame(tablechurn)
```

#Gaining more insight about the kind of data stored in each column

```
summary(tablechurn)

##       CustomerID      Gender      SeniorCitizen    Partner     Dependents
##  0002-ORFBO:   1   Female:3488   Min.   :0.0000   No :3641   No :4933
##  0003-MKNFE:   1   Male  :3555   1st Qu.:0.0000   Yes:3402   Yes:2110
##  0004-TLHLJ:   1                 Median :0.0000
##  0011-IGKFF:   1                 Mean   :0.1621
##  0013-EXCHZ:   1                 3rd Qu.:0.0000
##  0013-MHZWF:   1                 Max.   :1.0000
##  (Other)   :7037
##      Tenure        PhoneService         MultipleLines       InternetService
##  Min.   : 0.00   No : 682    No                :3390   DSL        :2421
##  1st Qu.: 9.00   Yes:6361    No phone service: 682   Fiber optic:3096
##  Median :29.00               Yes               :2971   No         :1526
##  Mean   :32.37
##  3rd Qu.:55.00
##  Max.   :72.00
##
##             OnlineSecurity            OnlineBackup
##  No                   :3498   No                   :3088
##  No internet service:1526   No internet service:1526
##  Yes                  :2019   Yes                  :2429
##
##
##
##
##             DeviceProtection           TechSupport
##  No                   :3095   No                   :3473
##  No internet service:1526   No internet service:1526
##  Yes                  :2422   Yes                  :2044
##
##
##
##
##              StreamingTV                StreamingMovies            Contract
##  No                   :2810   No                   :2785   Month-to-month:3875
##  No internet service:1526   No internet service:1526   One year      :1473
##  Yes                  :2707   Yes                  :2732   Two year      :1695
##
##
##
##
##  PaperlessBilling                    PaymentMethod   MonthlyCharges
##  No :2872       Bank transfer (automatic):1544   Min.   : 18.25
##  Yes:4171       Credit card (automatic)  :1522   1st Qu.: 35.50
##                 Electronic check         :2365   Median : 70.35
##                 Mailed check             :1612   Mean   : 64.76
##                                                   3rd Qu.: 89.85
##                                                   Max.   :118.75
```

```
## 
##    TotalCharges    Churn    
##  Min.   :  18.8   No :5174  
##  1st Qu.: 401.4   Yes:1869  
##  Median :1397.5             
##  Mean   :2283.3             
##  3rd Qu.:3794.7             
##  Max.   :8684.8             
##  NA's   :11                 
```

```r
glimpse(tablechurn)
```

```
## Observations: 7,043
## Variables: 21
## $ CustomerID       <fct> 7590-VHVEG, 5575-GNVDE, 3668-QPYBK, 7795-CFOCW, 9
2...
## $ Gender           <fct> Female, Male, Male, Male, Female, Female, Male, F
e...
## $ SeniorCitizen    <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
,...
## $ Partner          <fct> Yes, No, No, No, No, No, No, No, Yes, No, Yes, No
,...
## $ Dependents       <fct> No, No, No, No, No, No, Yes, No, No, Yes, Yes, No
,...
## $ Tenure           <int> 1, 34, 2, 45, 2, 8, 22, 10, 28, 62, 13, 16, 58, 4
9...
## $ PhoneService     <fct> No, Yes, Yes, No, Yes, Yes, Yes, No, Yes, Yes, Ye
s...
## $ MultipleLines    <fct> No phone service, No, No, No phone service, No, Y
e...
## $ InternetService  <fct> DSL, DSL, DSL, DSL, Fiber optic, Fiber optic, Fib
e...
## $ OnlineSecurity   <fct> No, Yes, Yes, Yes, No, No, No, Yes, No, Yes, Yes,
...
## $ OnlineBackup     <fct> Yes, No, Yes, No, No, No, Yes, No, No, Yes, No, N
o...
## $ DeviceProtection <fct> No, Yes, No, Yes, No, Yes, No, No, Yes, No, No, N
o...
## $ TechSupport      <fct> No, No, No, Yes, No, No, No, No, Yes, No, No, No
i...
## $ StreamingTV      <fct> No, No, No, No, No, Yes, Yes, No, Yes, No, No, No
...
## $ StreamingMovies  <fct> No, No, No, No, No, Yes, No, No, Yes, No, No, No
i...
## $ Contract         <fct> Month-to-month, One year, Month-to-month, One yea
r...
## $ PaperlessBilling <fct> Yes, No, Yes, No, Yes, Yes, Yes, No, Yes, No, Yes
,...
## $ PaymentMethod    <fct> Electronic check, Mailed check, Mailed check, Ban
k...
```

```
## $ MonthlyCharges  <dbl> 29.85, 56.95, 53.85, 42.30, 70.70, 99.65, 89.10,
2...
## $ TotalCharges    <dbl> 29.85, 1889.50, 108.15, 1840.75, 151.65, 820.50,
1...
## $ Churn           <fct> No, No, Yes, No, Yes, Yes, No, No, Yes, No, No, N
o...
```

#The above results give us an insight that TotalCharges and MonthlyCharges ar
e numerical values
#SeniorCitizen and Tenure are stored as numerical which need to be converted
to categorical variables

Performing Data Cleaning and Formatting

#Converting SeniorCitizen numerical variable into Categorical Variable

```
tablechurn$SeniorCitizen<-factor(tablechurn$SeniorCitizen,levels = c(0 ,1),la
bels = c('no','yes'))
```

#Converting tenure values into ranges of 12 months

```
tablechurn <- mutate(tablechurn,Tenure_Range = Tenure)
cut(tablechurn$Tenure_Range,6,labels = c('0-1 Years','1-2 Years','2-3 Years',
'4-5 Years','5-6 Years','6-7 Years'))
```

```
##    [1] 0-1 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Yea
rs
##    [8] 0-1 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Years 5-6 Years 5-6 Yea
rs
##   [15] 2-3 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Yea
rs
##   [22] 0-1 Years 0-1 Years 5-6 Years 5-6 Years 2-3 Years 4-5 Years 0-1 Yea
rs
##   [29] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Yea
rs
##   [36] 6-7 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Yea
rs
##   [43] 1-2 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Yea
rs
##   [50] 6-7 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 1-2 Yea
rs
##   [57] 6-7 Years 6-7 Years 2-3 Years 6-7 Years 4-5 Years 5-6 Years 6-7 Yea
rs
##   [64] 1-2 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years 5-6 Years 0-1 Yea
rs
##   [71] 0-1 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Yea
rs
##   [78] 0-1 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Yea
rs
##   [85] 5-6 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years 2-3 Years 2-3 Yea
```

```
rs
##   [92] 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Yea
rs
##   [99] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Years 6-7 Yea
rs
##  [106] 0-1 Years 6-7 Years 2-3 Years 4-5 Years 6-7 Years 5-6 Years 5-6 Yea
rs
##  [113] 4-5 Years 4-5 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Yea
rs
##  [120] 2-3 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Yea
rs
##  [127] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 2-3 Years 6-7 Yea
rs
##  [134] 0-1 Years 0-1 Years 4-5 Years 1-2 Years 6-7 Years 5-6 Years 0-1 Yea
rs
##  [141] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Yea
rs
##  [148] 0-1 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Yea
rs
##  [155] 0-1 Years 1-2 Years 1-2 Years 1-2 Years 1-2 Years 0-1 Years 1-2 Yea
rs
##  [162] 1-2 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Yea
rs
##  [169] 5-6 Years 1-2 Years 4-5 Years 0-1 Years 1-2 Years 5-6 Years 2-3 Yea
rs
##  [176] 2-3 Years 1-2 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Yea
rs
##  [183] 0-1 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Yea
rs
##  [190] 4-5 Years 4-5 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 1-2 Yea
rs
##  [197] 1-2 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Yea
rs
##  [204] 1-2 Years 4-5 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Yea
rs
##  [211] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 5-6 Years 6-7 Yea
rs
##  [218] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Yea
rs
##  [225] 0-1 Years 1-2 Years 2-3 Years 0-1 Years 2-3 Years 4-5 Years 5-6 Yea
rs
##  [232] 5-6 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Yea
rs
##  [239] 0-1 Years 1-2 Years 6-7 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Yea
rs
##  [246] 0-1 Years 4-5 Years 1-2 Years 0-1 Years 4-5 Years 5-6 Years 0-1 Yea
rs
##  [253] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Yea
rs
##  [260] 2-3 Years 0-1 Years 1-2 Years 5-6 Years 2-3 Years 4-5 Years 6-7 Yea
```

```
rs
##  [267] 5-6 Years 1-2 Years 5-6 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Yea
rs
##  [274] 1-2 Years 0-1 Years 0-1 Years 5-6 Years 1-2 Years 1-2 Years 0-1 Yea
rs
##  [281] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Yea
rs
##  [288] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Yea
rs
##  [295] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Years 0-1 Years 1-2 Yea
rs
##  [302] 0-1 Years 0-1 Years 6-7 Years 4-5 Years 5-6 Years 2-3 Years 2-3 Yea
rs
##  [309] 4-5 Years 4-5 Years 0-1 Years 1-2 Years 4-5 Years 0-1 Years 0-1 Yea
rs
##  [316] 5-6 Years 6-7 Years 4-5 Years 1-2 Years 2-3 Years 5-6 Years 6-7 Yea
rs
##  [323] 0-1 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Yea
rs
##  [330] 1-2 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Yea
rs
##  [337] 4-5 Years 6-7 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Yea
rs
##  [344] 6-7 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Yea
rs
##  [351] 4-5 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Yea
rs
##  [358] 6-7 Years 2-3 Years 4-5 Years 0-1 Years 4-5 Years 5-6 Years 4-5 Yea
rs
##  [365] 1-2 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Yea
rs
##  [372] 0-1 Years 1-2 Years 5-6 Years 4-5 Years 4-5 Years 0-1 Years 2-3 Yea
rs
##  [379] 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Yea
rs
##  [386] 0-1 Years 5-6 Years 4-5 Years 4-5 Years 0-1 Years 2-3 Years 2-3 Yea
rs
##  [393] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 2-3 Years 2-3 Yea
rs
##  [400] 1-2 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 6-7 Yea
rs
##  [407] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Yea
rs
##  [414] 5-6 Years 4-5 Years 1-2 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Yea
rs
##  [421] 0-1 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years 5-6 Yea
rs
##  [428] 0-1 Years 1-2 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Yea
rs
##  [435] 4-5 Years 2-3 Years 2-3 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Yea
```

```
rs
##  [442] 5-6 Years 5-6 Years 1-2 Years 2-3 Years 5-6 Years 0-1 Years 5-6 Yea
rs
##  [449] 0-1 Years 6-7 Years 6-7 Years 1-2 Years 5-6 Years 2-3 Years 6-7 Yea
rs
##  [456] 1-2 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Yea
rs
##  [463] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Years 4-5 Yea
rs
##  [470] 1-2 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Yea
rs
##  [477] 2-3 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 4-5 Years 1-2 Yea
rs
##  [484] 6-7 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Yea
rs
##  [491] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 2-3 Yea
rs
##  [498] 6-7 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years 6-7 Years 5-6 Yea
rs
##  [505] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Yea
rs
##  [512] 6-7 Years 0-1 Years 5-6 Years 2-3 Years 4-5 Years 2-3 Years 0-1 Yea
rs
##  [519] 2-3 Years 0-1 Years 6-7 Years 2-3 Years 5-6 Years 1-2 Years 2-3 Yea
rs
##  [526] 5-6 Years 6-7 Years 5-6 Years 2-3 Years 5-6 Years 1-2 Years 6-7 Yea
rs
##  [533] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 2-3 Years 6-7 Yea
rs
##  [540] 5-6 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Yea
rs
##  [547] 4-5 Years 6-7 Years 5-6 Years 1-2 Years 6-7 Years 6-7 Years 5-6 Yea
rs
##  [554] 1-2 Years 2-3 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Yea
rs
##  [561] 5-6 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 1-2 Yea
rs
##  [568] 6-7 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years 5-6 Yea
rs
##  [575] 2-3 Years 6-7 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Yea
rs
##  [582] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Yea
rs
##  [589] 6-7 Years 6-7 Years 6-7 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Yea
rs
##  [596] 0-1 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Yea
rs
##  [603] 6-7 Years 4-5 Years 2-3 Years 6-7 Years 4-5 Years 5-6 Years 6-7 Yea
rs
##  [610] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 5-6 Years 1-2 Yea
```

```
rs
##  [617] 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Yea
rs
##  [624] 1-2 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 6-7 Years 5-6 Yea
rs
##  [631] 4-5 Years 4-5 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Years 2-3 Yea
rs
##  [638] 6-7 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years 5-6 Yea
rs
##  [645] 1-2 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Yea
rs
##  [652] 0-1 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Yea
rs
##  [659] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Yea
rs
##  [666] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Yea
rs
##  [673] 0-1 Years 1-2 Years 5-6 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Yea
rs
##  [680] 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Yea
rs
##  [687] 5-6 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years 2-3 Years 4-5 Yea
rs
##  [694] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Yea
rs
##  [701] 6-7 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Yea
rs
##  [708] 2-3 Years 2-3 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 1-2 Yea
rs
##  [715] 6-7 Years 4-5 Years 6-7 Years 2-3 Years 2-3 Years 6-7 Years 0-1 Yea
rs
##  [722] 6-7 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Years 0-1 Yea
rs
##  [729] 2-3 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Yea
rs
##  [736] 2-3 Years 2-3 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 0-1 Yea
rs
##  [743] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Yea
rs
##  [750] 6-7 Years 2-3 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Yea
rs
##  [757] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Yea
rs
##  [764] 6-7 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Yea
rs
##  [771] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years 0-1 Yea
rs
##  [778] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Yea
rs
##  [785] 6-7 Years 4-5 Years 6-7 Years 2-3 Years 1-2 Years 6-7 Years 5-6 Yea
```

```
rs
##   [792] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Yea
rs
##   [799] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Yea
rs
##   [806] 6-7 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years 5-6 Years 6-7 Yea
rs
##   [813] 4-5 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 5-6 Years 1-2 Yea
rs
##   [820] 6-7 Years 6-7 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Yea
rs
##   [827] 0-1 Years 1-2 Years 5-6 Years 2-3 Years 5-6 Years 4-5 Years 6-7 Yea
rs
##   [834] 4-5 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Yea
rs
##   [841] 5-6 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years 6-7 Yea
rs
##   [848] 0-1 Years 6-7 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Yea
rs
##   [855] 6-7 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Yea
rs
##   [862] 6-7 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Yea
rs
##   [869] 5-6 Years 0-1 Years 6-7 Years 5-6 Years 6-7 Years 5-6 Years 4-5 Yea
rs
##   [876] 0-1 Years 1-2 Years 5-6 Years 5-6 Years 2-3 Years 0-1 Years 2-3 Yea
rs
##   [883] 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years 4-5 Yea
rs
##   [890] 6-7 Years 2-3 Years 5-6 Years 2-3 Years 0-1 Years 6-7 Years 2-3 Yea
rs
##   [897] 6-7 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Yea
rs
##   [904] 5-6 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Yea
rs
##   [911] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Yea
rs
##   [918] 6-7 Years 2-3 Years 1-2 Years 5-6 Years 0-1 Years 1-2 Years 6-7 Yea
rs
##   [925] 1-2 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 1-2 Yea
rs
##   [932] 2-3 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Yea
rs
##   [939] 6-7 Years 1-2 Years 1-2 Years 1-2 Years 1-2 Years 6-7 Years 5-6 Yea
rs
##   [946] 0-1 Years 0-1 Years 2-3 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Yea
rs
##   [953] 1-2 Years 1-2 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Yea
rs
##   [960] 2-3 Years 0-1 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Yea
```

```
rs
##  [967] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Yea
rs
##  [974] 4-5 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 2-3 Yea
rs
##  [981] 1-2 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Yea
rs
##  [988] 0-1 Years 2-3 Years 2-3 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Yea
rs
##  [995] 1-2 Years 2-3 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [1002] 2-3 Years 0-1 Years 4-5 Years 1-2 Years 5-6 Years 1-2 Years 0-1 Yea
rs
## [1009] 2-3 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [1016] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years 2-3 Yea
rs
## [1023] 0-1 Years 4-5 Years 4-5 Years 5-6 Years 0-1 Years 4-5 Years 2-3 Yea
rs
## [1030] 0-1 Years 5-6 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Yea
rs
## [1037] 6-7 Years 1-2 Years 5-6 Years 4-5 Years 1-2 Years 1-2 Years 1-2 Yea
rs
## [1044] 2-3 Years 0-1 Years 4-5 Years 5-6 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [1051] 0-1 Years 1-2 Years 4-5 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Yea
rs
## [1058] 0-1 Years 0-1 Years 1-2 Years 2-3 Years 6-7 Years 2-3 Years 0-1 Yea
rs
## [1065] 1-2 Years 1-2 Years 4-5 Years 1-2 Years 5-6 Years 1-2 Years 0-1 Yea
rs
## [1072] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years 4-5 Yea
rs
## [1079] 5-6 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [1086] 1-2 Years 0-1 Years 2-3 Years 1-2 Years 1-2 Years 5-6 Years 2-3 Yea
rs
## [1093] 6-7 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [1100] 0-1 Years 1-2 Years 1-2 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Yea
rs
## [1107] 6-7 Years 6-7 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 6-7 Yea
rs
## [1114] 4-5 Years 2-3 Years 4-5 Years 4-5 Years 5-6 Years 4-5 Years 6-7 Yea
rs
## [1121] 1-2 Years 5-6 Years 1-2 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [1128] 1-2 Years 2-3 Years 4-5 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Yea
rs
## [1135] 2-3 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Yea
```

```
rs
## [1142] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 2-3 Years 0-1 Yea
rs
## [1149] 0-1 Years 1-2 Years 4-5 Years 0-1 Years 0-1 Years 5-6 Years 4-5 Yea
rs
## [1156] 6-7 Years 5-6 Years 6-7 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [1163] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [1170] 6-7 Years 6-7 Years 5-6 Years 2-3 Years 0-1 Years 1-2 Years 1-2 Yea
rs
## [1177] 0-1 Years 4-5 Years 1-2 Years 4-5 Years 4-5 Years 1-2 Years 5-6 Yea
rs
## [1184] 5-6 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Years 0-1 Yea
rs
## [1191] 4-5 Years 2-3 Years 0-1 Years 4-5 Years 1-2 Years 1-2 Years 6-7 Yea
rs
## [1198] 1-2 Years 4-5 Years 1-2 Years 4-5 Years 0-1 Years 5-6 Years 5-6 Yea
rs
## [1205] 1-2 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 1-2 Yea
rs
## [1212] 0-1 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Yea
rs
## [1219] 1-2 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [1226] 1-2 Years 6-7 Years 2-3 Years 5-6 Years 6-7 Years 4-5 Years 1-2 Yea
rs
## [1233] 2-3 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Yea
rs
## [1240] 0-1 Years 2-3 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Yea
rs
## [1247] 4-5 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [1254] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years 4-5 Years 4-5 Yea
rs
## [1261] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Yea
rs
## [1268] 6-7 Years 5-6 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years 5-6 Yea
rs
## [1275] 6-7 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Years 2-3 Years 6-7 Yea
rs
## [1282] 2-3 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Yea
rs
## [1289] 6-7 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Yea
rs
## [1296] 6-7 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [1303] 4-5 Years 6-7 Years 1-2 Years 2-3 Years 6-7 Years 2-3 Years 1-2 Yea
rs
## [1310] 1-2 Years 2-3 Years 4-5 Years 4-5 Years 4-5 Years 4-5 Years 0-1 Yea
```

```
rs
## [1317] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years 0-1 Yea
rs
## [1324] 6-7 Years 0-1 Years 0-1 Years 4-5 Years 5-6 Years 1-2 Years 6-7 Yea
rs
## [1331] 1-2 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [1338] 2-3 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [1345] 2-3 Years 5-6 Years 1-2 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Yea
rs
## [1352] 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 4-5 Yea
rs
## [1359] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Yea
rs
## [1366] 5-6 Years 0-1 Years 6-7 Years 5-6 Years 2-3 Years 2-3 Years 0-1 Yea
rs
## [1373] 1-2 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 5-6 Yea
rs
## [1380] 6-7 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years 4-5 Yea
rs
## [1387] 6-7 Years 6-7 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years 2-3 Yea
rs
## [1394] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Yea
rs
## [1401] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [1408] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Yea
rs
## [1415] 2-3 Years 6-7 Years 5-6 Years 1-2 Years 6-7 Years 6-7 Years 5-6 Yea
rs
## [1422] 0-1 Years 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 4-5 Yea
rs
## [1429] 0-1 Years 4-5 Years 1-2 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [1436] 6-7 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [1443] 5-6 Years 0-1 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [1450] 0-1 Years 0-1 Years 1-2 Years 5-6 Years 2-3 Years 2-3 Years 2-3 Yea
rs
## [1457] 1-2 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years 1-2 Years 2-3 Yea
rs
## [1464] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 4-5 Yea
rs
## [1471] 0-1 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Yea
rs
## [1478] 6-7 Years 4-5 Years 4-5 Years 4-5 Years 6-7 Years 1-2 Years 5-6 Yea
rs
## [1485] 6-7 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 1-2 Years 6-7 Yea
```

```
rs
## [1492] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 5-6 Yea
rs
## [1499] 1-2 Years 6-7 Years 4-5 Years 1-2 Years 5-6 Years 4-5 Years 1-2 Yea
rs
## [1506] 0-1 Years 6-7 Years 5-6 Years 1-2 Years 1-2 Years 6-7 Years 6-7 Yea
rs
## [1513] 1-2 Years 0-1 Years 6-7 Years 4-5 Years 1-2 Years 5-6 Years 0-1 Yea
rs
## [1520] 0-1 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [1527] 0-1 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [1534] 1-2 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [1541] 6-7 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Years 6-7 Years 5-6 Yea
rs
## [1548] 6-7 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 4-5 Yea
rs
## [1555] 2-3 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 4-5 Yea
rs
## [1562] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Yea
rs
## [1569] 0-1 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 4-5 Years 1-2 Yea
rs
## [1576] 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Yea
rs
## [1583] 5-6 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 5-6 Yea
rs
## [1590] 0-1 Years 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [1597] 0-1 Years 4-5 Years 2-3 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Yea
rs
## [1604] 1-2 Years 6-7 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years 5-6 Yea
rs
## [1611] 5-6 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years 5-6 Years 5-6 Yea
rs
## [1618] 2-3 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Years 5-6 Yea
rs
## [1625] 5-6 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Yea
rs
## [1632] 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Yea
rs
## [1639] 6-7 Years 1-2 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Years 2-3 Yea
rs
## [1646] 4-5 Years 5-6 Years 0-1 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [1653] 1-2 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years 2-3 Years 5-6 Yea
rs
## [1660] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Yea
```

```
rs
## [1667] 0-1 Years 1-2 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [1674] 4-5 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [1681] 5-6 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years 2-3 Years 2-3 Yea
rs
## [1688] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 5-6 Years 4-5 Years 6-7 Yea
rs
## [1695] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Years 4-5 Yea
rs
## [1702] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Yea
rs
## [1709] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 2-3 Years 5-6 Years 6-7 Yea
rs
## [1716] 4-5 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [1723] 5-6 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 2-3 Years 4-5 Yea
rs
## [1730] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [1737] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years 0-1 Yea
rs
## [1744] 6-7 Years 4-5 Years 5-6 Years 6-7 Years 0-1 Years 5-6 Years 5-6 Yea
rs
## [1751] 5-6 Years 1-2 Years 2-3 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [1758] 5-6 Years 6-7 Years 1-2 Years 5-6 Years 5-6 Years 2-3 Years 0-1 Yea
rs
## [1765] 6-7 Years 5-6 Years 2-3 Years 6-7 Years 6-7 Years 6-7 Years 4-5 Yea
rs
## [1772] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Yea
rs
## [1779] 6-7 Years 0-1 Years 1-2 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [1786] 6-7 Years 4-5 Years 4-5 Years 5-6 Years 5-6 Years 0-1 Years 4-5 Yea
rs
## [1793] 4-5 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years 2-3 Years 2-3 Yea
rs
## [1800] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 2-3 Years 6-7 Yea
rs
## [1807] 2-3 Years 0-1 Years 1-2 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Yea
rs
## [1814] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years 5-6 Years 6-7 Yea
rs
## [1821] 0-1 Years 2-3 Years 2-3 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Yea
rs
## [1828] 4-5 Years 4-5 Years 0-1 Years 2-3 Years 1-2 Years 5-6 Years 0-1 Yea
rs
## [1835] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Yea
```

```
rs
## [1842] 5-6 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years 1-2 Years 5-6 Yea
rs
## [1849] 4-5 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [1856] 4-5 Years 4-5 Years 6-7 Years 1-2 Years 5-6 Years 6-7 Years 0-1 Yea
rs
## [1863] 5-6 Years 0-1 Years 2-3 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [1870] 6-7 Years 0-1 Years 5-6 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Yea
rs
## [1877] 4-5 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Yea
rs
## [1884] 2-3 Years 2-3 Years 1-2 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Yea
rs
## [1891] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years 4-5 Yea
rs
## [1898] 2-3 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [1905] 5-6 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [1912] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Yea
rs
## [1919] 1-2 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 4-5 Years 1-2 Yea
rs
## [1926] 5-6 Years 5-6 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [1933] 0-1 Years 1-2 Years 0-1 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Yea
rs
## [1940] 0-1 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [1947] 5-6 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Yea
rs
## [1954] 0-1 Years 0-1 Years 5-6 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Yea
rs
## [1961] 2-3 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Yea
rs
## [1968] 6-7 Years 5-6 Years 5-6 Years 0-1 Years 1-2 Years 1-2 Years 6-7 Yea
rs
## [1975] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 5-6 Years 4-5 Years 0-1 Yea
rs
## [1982] 5-6 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 2-3 Yea
rs
## [1989] 5-6 Years 2-3 Years 1-2 Years 4-5 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [1996] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Yea
rs
## [2003] 5-6 Years 5-6 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [2010] 6-7 Years 0-1 Years 5-6 Years 4-5 Years 2-3 Years 1-2 Years 2-3 Yea
```

```
rs
## [2017] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 5-6 Years 6-7 Years 1-2 Yea
rs
## [2024] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Yea
rs
## [2031] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Yea
rs
## [2038] 0-1 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [2045] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Yea
rs
## [2052] 6-7 Years 4-5 Years 4-5 Years 0-1 Years 4-5 Years 5-6 Years 1-2 Yea
rs
## [2059] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 5-6 Years 2-3 Yea
rs
## [2066] 2-3 Years 6-7 Years 6-7 Years 4-5 Years 0-1 Years 5-6 Years 6-7 Yea
rs
## [2073] 4-5 Years 1-2 Years 4-5 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [2080] 6-7 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Yea
rs
## [2087] 1-2 Years 0-1 Years 2-3 Years 5-6 Years 4-5 Years 5-6 Years 6-7 Yea
rs
## [2094] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Yea
rs
## [2101] 6-7 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [2108] 2-3 Years 4-5 Years 2-3 Years 0-1 Years 2-3 Years 2-3 Years 4-5 Yea
rs
## [2115] 4-5 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 4-5 Years 5-6 Yea
rs
## [2122] 0-1 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [2129] 4-5 Years 0-1 Years 5-6 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Yea
rs
## [2136] 5-6 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [2143] 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Yea
rs
## [2150] 4-5 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Years 2-3 Yea
rs
## [2157] 0-1 Years 5-6 Years 5-6 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Yea
rs
## [2164] 2-3 Years 6-7 Years 1-2 Years 5-6 Years 1-2 Years 0-1 Years 6-7 Yea
rs
## [2171] 1-2 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 6-7 Yea
rs
## [2178] 6-7 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years 0-1 Yea
rs
## [2185] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Yea
```

```
rs
## [2192] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Yea
rs
## [2199] 1-2 Years 5-6 Years 1-2 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [2206] 2-3 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Yea
rs
## [2213] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Yea
rs
## [2220] 1-2 Years 6-7 Years 6-7 Years 4-5 Years 2-3 Years 1-2 Years 2-3 Yea
rs
## [2227] 1-2 Years 5-6 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years 2-3 Yea
rs
## [2234] 5-6 Years 1-2 Years 4-5 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [2241] 6-7 Years 5-6 Years 4-5 Years 6-7 Years 2-3 Years 6-7 Years 0-1 Yea
rs
## [2248] 4-5 Years 2-3 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [2255] 6-7 Years 0-1 Years 1-2 Years 5-6 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [2262] 5-6 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Yea
rs
## [2269] 4-5 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [2276] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Yea
rs
## [2283] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [2290] 6-7 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [2297] 0-1 Years 5-6 Years 6-7 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Yea
rs
## [2304] 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Yea
rs
## [2311] 6-7 Years 4-5 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Yea
rs
## [2318] 5-6 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 2-3 Yea
rs
## [2325] 1-2 Years 0-1 Years 6-7 Years 2-3 Years 2-3 Years 5-6 Years 2-3 Yea
rs
## [2332] 2-3 Years 4-5 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years 5-6 Yea
rs
## [2339] 6-7 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Yea
rs
## [2346] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Yea
rs
## [2353] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years 5-6 Yea
rs
## [2360] 2-3 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 1-2 Years 1-2 Yea
```

```
rs
## [2367] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Yea
rs
## [2374] 6-7 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Years 2-3 Yea
rs
## [2381] 5-6 Years 0-1 Years 2-3 Years 1-2 Years 4-5 Years 0-1 Years 4-5 Yea
rs
## [2388] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Yea
rs
## [2395] 6-7 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [2402] 0-1 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [2409] 4-5 Years 2-3 Years 4-5 Years 5-6 Years 4-5 Years 0-1 Years 2-3 Yea
rs
## [2416] 4-5 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [2423] 0-1 Years 1-2 Years 5-6 Years 2-3 Years 1-2 Years 0-1 Years 4-5 Yea
rs
## [2430] 5-6 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [2437] 2-3 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [2444] 6-7 Years 2-3 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [2451] 6-7 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [2458] 5-6 Years 5-6 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [2465] 0-1 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [2472] 5-6 Years 6-7 Years 0-1 Years 4-5 Years 5-6 Years 6-7 Years 0-1 Yea
rs
## [2479] 0-1 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [2486] 1-2 Years 2-3 Years 1-2 Years 2-3 Years 6-7 Years 4-5 Years 4-5 Yea
rs
## [2493] 1-2 Years 0-1 Years 2-3 Years 4-5 Years 1-2 Years 0-1 Years 2-3 Yea
rs
## [2500] 4-5 Years 5-6 Years 6-7 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Yea
rs
## [2507] 6-7 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [2514] 5-6 Years 2-3 Years 6-7 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [2521] 2-3 Years 2-3 Years 5-6 Years 4-5 Years 6-7 Years 6-7 Years 0-1 Yea
rs
## [2528] 0-1 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Yea
rs
## [2535] 6-7 Years 6-7 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Yea
```

```
rs
## [2542] 6-7 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 2-3 Years 5-6 Yea
rs
## [2549] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Yea
rs
## [2556] 0-1 Years 4-5 Years 0-1 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Yea
rs
## [2563] 6-7 Years 2-3 Years 1-2 Years 1-2 Years 6-7 Years 5-6 Years 1-2 Yea
rs
## [2570] 6-7 Years 2-3 Years 4-5 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Yea
rs
## [2577] 5-6 Years 0-1 Years 2-3 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [2584] 5-6 Years 5-6 Years 4-5 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [2591] 2-3 Years 5-6 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 1-2 Yea
rs
## [2598] 6-7 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Yea
rs
## [2605] 2-3 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Yea
rs
## [2612] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [2619] 2-3 Years 2-3 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Yea
rs
## [2626] 5-6 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [2633] 5-6 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Years 5-6 Yea
rs
## [2640] 1-2 Years 1-2 Years 0-1 Years 4-5 Years 2-3 Years 1-2 Years 0-1 Yea
rs
## [2647] 5-6 Years 0-1 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Yea
rs
## [2654] 6-7 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years 1-2 Years 6-7 Yea
rs
## [2661] 1-2 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Years 6-7 Yea
rs
## [2668] 6-7 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 2-3 Years 1-2 Yea
rs
## [2675] 0-1 Years 4-5 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [2682] 4-5 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Yea
rs
## [2689] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Yea
rs
## [2696] 5-6 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years 6-7 Yea
rs
## [2703] 0-1 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [2710] 4-5 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Years 4-5 Yea
```

```
rs
## [2717] 1-2 Years 6-7 Years 6-7 Years 5-6 Years 1-2 Years 0-1 Years 2-3 Yea
rs
## [2724] 1-2 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [2731] 5-6 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Yea
rs
## [2738] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [2745] 4-5 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [2752] 1-2 Years 2-3 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Yea
rs
## [2759] 0-1 Years 0-1 Years 2-3 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Yea
rs
## [2766] 1-2 Years 6-7 Years 4-5 Years 0-1 Years 1-2 Years 1-2 Years 1-2 Yea
rs
## [2773] 6-7 Years 1-2 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [2780] 0-1 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years 2-3 Yea
rs
## [2787] 2-3 Years 6-7 Years 6-7 Years 1-2 Years 5-6 Years 5-6 Years 1-2 Yea
rs
## [2794] 0-1 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [2801] 1-2 Years 6-7 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years 5-6 Yea
rs
## [2808] 0-1 Years 0-1 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Years 6-7 Yea
rs
## [2815] 6-7 Years 0-1 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Yea
rs
## [2822] 0-1 Years 4-5 Years 4-5 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Yea
rs
## [2829] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 6-7 Years 4-5 Yea
rs
## [2836] 6-7 Years 5-6 Years 0-1 Years 4-5 Years 4-5 Years 1-2 Years 0-1 Yea
rs
## [2843] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [2850] 0-1 Years 5-6 Years 6-7 Years 6-7 Years 5-6 Years 1-2 Years 4-5 Yea
rs
## [2857] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [2864] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Yea
rs
## [2871] 5-6 Years 1-2 Years 4-5 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Yea
rs
## [2878] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [2885] 6-7 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years 4-5 Yea
```

```
rs
## [2892] 0-1 Years 0-1 Years 1-2 Years 4-5 Years 4-5 Years 1-2 Years 4-5 Yea
rs
## [2899] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Yea
rs
## [2906] 1-2 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 2-3 Years 0-1 Yea
rs
## [2913] 2-3 Years 5-6 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Yea
rs
## [2920] 5-6 Years 6-7 Years 0-1 Years 2-3 Years 5-6 Years 0-1 Years 5-6 Yea
rs
## [2927] 6-7 Years 0-1 Years 6-7 Years 4-5 Years 2-3 Years 2-3 Years 5-6 Yea
rs
## [2934] 6-7 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years 5-6 Years 0-1 Yea
rs
## [2941] 5-6 Years 6-7 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [2948] 5-6 Years 4-5 Years 5-6 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Yea
rs
## [2955] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [2962] 0-1 Years 0-1 Years 2-3 Years 1-2 Years 5-6 Years 1-2 Years 5-6 Yea
rs
## [2969] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Yea
rs
## [2976] 0-1 Years 1-2 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Yea
rs
## [2983] 5-6 Years 6-7 Years 2-3 Years 2-3 Years 5-6 Years 2-3 Years 6-7 Yea
rs
## [2990] 0-1 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [2997] 1-2 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Yea
rs
## [3004] 2-3 Years 0-1 Years 1-2 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [3011] 4-5 Years 0-1 Years 5-6 Years 2-3 Years 4-5 Years 5-6 Years 0-1 Yea
rs
## [3018] 1-2 Years 6-7 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [3025] 0-1 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [3032] 5-6 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Yea
rs
## [3039] 6-7 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Yea
rs
## [3046] 4-5 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [3053] 4-5 Years 6-7 Years 6-7 Years 5-6 Years 5-6 Years 2-3 Years 1-2 Yea
rs
## [3060] 6-7 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years 0-1 Yea
```

```
rs
## [3067] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Yea
rs
## [3074] 5-6 Years 2-3 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Yea
rs
## [3081] 0-1 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [3088] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Yea
rs
## [3095] 4-5 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Years 5-6 Yea
rs
## [3102] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years 6-7 Yea
rs
## [3109] 4-5 Years 5-6 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Yea
rs
## [3116] 1-2 Years 4-5 Years 6-7 Years 4-5 Years 2-3 Years 6-7 Years 1-2 Yea
rs
## [3123] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years 0-1 Yea
rs
## [3130] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Yea
rs
## [3137] 1-2 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Yea
rs
## [3144] 1-2 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years 0-1 Yea
rs
## [3151] 1-2 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years 2-3 Years 2-3 Yea
rs
## [3158] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 4-5 Yea
rs
## [3165] 2-3 Years 1-2 Years 1-2 Years 6-7 Years 5-6 Years 5-6 Years 2-3 Yea
rs
## [3172] 1-2 Years 2-3 Years 1-2 Years 5-6 Years 1-2 Years 5-6 Years 6-7 Yea
rs
## [3179] 5-6 Years 2-3 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years 6-7 Yea
rs
## [3186] 0-1 Years 5-6 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Yea
rs
## [3193] 5-6 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Yea
rs
## [3200] 6-7 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Yea
rs
## [3207] 0-1 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years 4-5 Yea
rs
## [3214] 4-5 Years 5-6 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Yea
rs
## [3221] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [3228] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 1-2 Years 2-3 Years 0-1 Yea
rs
## [3235] 1-2 Years 6-7 Years 1-2 Years 6-7 Years 2-3 Years 1-2 Years 5-6 Yea
```

```
rs
## [3242] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Yea
rs
## [3249] 0-1 Years 0-1 Years 0-1 Years 4-5 Years 1-2 Years 2-3 Years 1-2 Yea
rs
## [3256] 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [3263] 2-3 Years 5-6 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years 1-2 Yea
rs
## [3270] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years 1-2 Yea
rs
## [3277] 0-1 Years 1-2 Years 6-7 Years 1-2 Years 5-6 Years 5-6 Years 5-6 Yea
rs
## [3284] 6-7 Years 4-5 Years 6-7 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Yea
rs
## [3291] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Yea
rs
## [3298] 4-5 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [3305] 6-7 Years 4-5 Years 0-1 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Yea
rs
## [3312] 4-5 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Years 2-3 Years 6-7 Yea
rs
## [3319] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [3326] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Yea
rs
## [3333] 0-1 Years 0-1 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [3340] 6-7 Years 0-1 Years 5-6 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Yea
rs
## [3347] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [3354] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [3361] 1-2 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years 1-2 Years 2-3 Yea
rs
## [3368] 5-6 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Yea
rs
## [3375] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [3382] 4-5 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Yea
rs
## [3389] 6-7 Years 0-1 Years 5-6 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Yea
rs
## [3396] 6-7 Years 5-6 Years 6-7 Years 6-7 Years 4-5 Years 1-2 Years 5-6 Yea
rs
## [3403] 0-1 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years 0-1 Yea
rs
## [3410] 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years 4-5 Years 6-7 Yea
```

```
rs
## [3417] 0-1 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Yea
rs
## [3424] 0-1 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 5-6 Yea
rs
## [3431] 5-6 Years 1-2 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Yea
rs
## [3438] 4-5 Years 1-2 Years 6-7 Years 6-7 Years 2-3 Years 2-3 Years 4-5 Yea
rs
## [3445] 2-3 Years 4-5 Years 5-6 Years 4-5 Years 0-1 Years 5-6 Years 6-7 Yea
rs
## [3452] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [3459] 2-3 Years 2-3 Years 4-5 Years 5-6 Years 0-1 Years 4-5 Years 2-3 Yea
rs
## [3466] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Yea
rs
## [3473] 5-6 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Yea
rs
## [3480] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 0-1 Yea
rs
## [3487] 4-5 Years 5-6 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [3494] 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [3501] 5-6 Years 5-6 Years 4-5 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Yea
rs
## [3508] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Yea
rs
## [3515] 5-6 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Yea
rs
## [3522] 5-6 Years 4-5 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [3529] 1-2 Years 0-1 Years 1-2 Years 1-2 Years 1-2 Years 0-1 Years 4-5 Yea
rs
## [3536] 6-7 Years 0-1 Years 2-3 Years 6-7 Years 0-1 Years 6-7 Years 5-6 Yea
rs
## [3543] 2-3 Years 6-7 Years 2-3 Years 5-6 Years 6-7 Years 6-7 Years 6-7 Yea
rs
## [3550] 6-7 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Yea
rs
## [3557] 0-1 Years 2-3 Years 2-3 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [3564] 2-3 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years 1-2 Years 1-2 Yea
rs
## [3571] 1-2 Years 2-3 Years 2-3 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Yea
rs
## [3578] 2-3 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [3585] 0-1 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Yea
```

```
rs
## [3592] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Yea
rs
## [3599] 0-1 Years 4-5 Years 5-6 Years 5-6 Years 4-5 Years 0-1 Years 4-5 Yea
rs
## [3606] 2-3 Years 6-7 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [3613] 1-2 Years 5-6 Years 6-7 Years 2-3 Years 6-7 Years 1-2 Years 4-5 Yea
rs
## [3620] 6-7 Years 2-3 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years 6-7 Yea
rs
## [3627] 1-2 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [3634] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [3641] 2-3 Years 5-6 Years 2-3 Years 5-6 Years 4-5 Years 0-1 Years 4-5 Yea
rs
## [3648] 0-1 Years 5-6 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [3655] 2-3 Years 2-3 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [3662] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Years 1-2 Yea
rs
## [3669] 1-2 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Yea
rs
## [3676] 0-1 Years 2-3 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 4-5 Yea
rs
## [3683] 0-1 Years 6-7 Years 4-5 Years 5-6 Years 1-2 Years 1-2 Years 4-5 Yea
rs
## [3690] 0-1 Years 1-2 Years 4-5 Years 0-1 Years 4-5 Years 6-7 Years 2-3 Yea
rs
## [3697] 0-1 Years 2-3 Years 5-6 Years 2-3 Years 1-2 Years 2-3 Years 1-2 Yea
rs
## [3704] 0-1 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [3711] 0-1 Years 5-6 Years 4-5 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [3718] 2-3 Years 5-6 Years 2-3 Years 4-5 Years 0-1 Years 1-2 Years 1-2 Yea
rs
## [3725] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Yea
rs
## [3732] 0-1 Years 1-2 Years 2-3 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [3739] 2-3 Years 1-2 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Yea
rs
## [3746] 0-1 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [3753] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [3760] 0-1 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Yea
```

```
rs
## [3767] 0-1 Years 6-7 Years 5-6 Years 4-5 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [3774] 0-1 Years 5-6 Years 4-5 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Yea
rs
## [3781] 5-6 Years 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 2-3 Yea
rs
## [3788] 5-6 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [3795] 0-1 Years 0-1 Years 1-2 Years 4-5 Years 4-5 Years 2-3 Years 6-7 Yea
rs
## [3802] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Yea
rs
## [3809] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Yea
rs
## [3816] 0-1 Years 5-6 Years 5-6 Years 5-6 Years 4-5 Years 6-7 Years 0-1 Yea
rs
## [3823] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [3830] 4-5 Years 0-1 Years 2-3 Years 5-6 Years 0-1 Years 5-6 Years 1-2 Yea
rs
## [3837] 6-7 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 2-3 Years 2-3 Yea
rs
## [3844] 0-1 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [3851] 5-6 Years 4-5 Years 0-1 Years 4-5 Years 5-6 Years 5-6 Years 6-7 Yea
rs
## [3858] 0-1 Years 4-5 Years 5-6 Years 1-2 Years 2-3 Years 6-7 Years 1-2 Yea
rs
## [3865] 2-3 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Years 5-6 Years 6-7 Yea
rs
## [3872] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 1-2 Years 1-2 Yea
rs
## [3879] 6-7 Years 0-1 Years 2-3 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [3886] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 4-5 Yea
rs
## [3893] 1-2 Years 0-1 Years 6-7 Years 5-6 Years 4-5 Years 6-7 Years 4-5 Yea
rs
## [3900] 5-6 Years 2-3 Years 6-7 Years 0-1 Years 5-6 Years 2-3 Years 0-1 Yea
rs
## [3907] 0-1 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 1-2 Years 5-6 Yea
rs
## [3914] 6-7 Years 4-5 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [3921] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Yea
rs
## [3928] 0-1 Years 1-2 Years 5-6 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [3935] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Yea
```

```
rs
## [3942] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [3949] 5-6 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Yea
rs
## [3956] 2-3 Years 0-1 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [3963] 0-1 Years 6-7 Years 6-7 Years 5-6 Years 6-7 Years 2-3 Years 6-7 Yea
rs
## [3970] 0-1 Years 4-5 Years 2-3 Years 4-5 Years 4-5 Years 4-5 Years 1-2 Yea
rs
## [3977] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [3984] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Yea
rs
## [3991] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 2-3 Years 1-2 Yea
rs
## [3998] 6-7 Years 4-5 Years 0-1 Years 4-5 Years 4-5 Years 6-7 Years 4-5 Yea
rs
## [4005] 6-7 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Yea
rs
## [4012] 1-2 Years 0-1 Years 0-1 Years 5-6 Years 2-3 Years 0-1 Years 2-3 Yea
rs
## [4019] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [4026] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Yea
rs
## [4033] 6-7 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years 5-6 Years 5-6 Yea
rs
## [4040] 0-1 Years 5-6 Years 4-5 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Yea
rs
## [4047] 4-5 Years 6-7 Years 5-6 Years 4-5 Years 5-6 Years 6-7 Years 2-3 Yea
rs
## [4054] 0-1 Years 2-3 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Yea
rs
## [4061] 5-6 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [4068] 6-7 Years 1-2 Years 6-7 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [4075] 5-6 Years 5-6 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years 2-3 Yea
rs
## [4082] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years 6-7 Years 0-1 Yea
rs
## [4089] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [4096] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Yea
rs
## [4103] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 2-3 Yea
rs
## [4110] 0-1 Years 6-7 Years 1-2 Years 5-6 Years 2-3 Years 5-6 Years 5-6 Yea
```

```
rs
## [4117] 1-2 Years 6-7 Years 4-5 Years 2-3 Years 2-3 Years 2-3 Years 5-6 Yea
rs
## [4124] 2-3 Years 1-2 Years 4-5 Years 0-1 Years 5-6 Years 5-6 Years 2-3 Yea
rs
## [4131] 0-1 Years 0-1 Years 1-2 Years 5-6 Years 5-6 Years 2-3 Years 4-5 Yea
rs
## [4138] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years 2-3 Yea
rs
## [4145] 1-2 Years 1-2 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years 0-1 Yea
rs
## [4152] 5-6 Years 6-7 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [4159] 4-5 Years 5-6 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Yea
rs
## [4166] 0-1 Years 2-3 Years 5-6 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Yea
rs
## [4173] 0-1 Years 0-1 Years 4-5 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Yea
rs
## [4180] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [4187] 6-7 Years 2-3 Years 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Yea
rs
## [4194] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Years 5-6 Years 5-6 Yea
rs
## [4201] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Yea
rs
## [4208] 1-2 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Yea
rs
## [4215] 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 4-5 Years 5-6 Yea
rs
## [4222] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [4229] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [4236] 5-6 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years 1-2 Yea
rs
## [4243] 0-1 Years 4-5 Years 4-5 Years 6-7 Years 6-7 Years 6-7 Years 5-6 Yea
rs
## [4250] 0-1 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 2-3 Years 1-2 Yea
rs
## [4257] 6-7 Years 5-6 Years 4-5 Years 0-1 Years 4-5 Years 5-6 Years 0-1 Yea
rs
## [4264] 6-7 Years 4-5 Years 6-7 Years 6-7 Years 6-7 Years 2-3 Years 1-2 Yea
rs
## [4271] 6-7 Years 2-3 Years 5-6 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Yea
rs
## [4278] 0-1 Years 4-5 Years 2-3 Years 6-7 Years 5-6 Years 5-6 Years 0-1 Yea
rs
## [4285] 2-3 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Yea
```

```
rs
## [4292] 6-7 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Yea
rs
## [4299] 0-1 Years 2-3 Years 1-2 Years 6-7 Years 5-6 Years 4-5 Years 5-6 Yea
rs
## [4306] 2-3 Years 4-5 Years 4-5 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Yea
rs
## [4313] 2-3 Years 1-2 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Yea
rs
## [4320] 6-7 Years 6-7 Years 1-2 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Yea
rs
## [4327] 0-1 Years 0-1 Years 1-2 Years 1-2 Years 1-2 Years 6-7 Years 5-6 Yea
rs
## [4334] 2-3 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [4341] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Yea
rs
## [4348] 5-6 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [4355] 5-6 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years 1-2 Years 2-3 Yea
rs
## [4362] 2-3 Years 5-6 Years 5-6 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Yea
rs
## [4369] 0-1 Years 0-1 Years 1-2 Years 1-2 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [4376] 6-7 Years 4-5 Years 1-2 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Yea
rs
## [4383] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Years 1-2 Yea
rs
## [4390] 2-3 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years 6-7 Yea
rs
## [4397] 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Yea
rs
## [4404] 2-3 Years 1-2 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [4411] 1-2 Years 5-6 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Years 1-2 Yea
rs
## [4418] 0-1 Years 5-6 Years 0-1 Years 2-3 Years 2-3 Years 2-3 Years 2-3 Yea
rs
## [4425] 0-1 Years 1-2 Years 1-2 Years 5-6 Years 1-2 Years 6-7 Years 2-3 Yea
rs
## [4432] 1-2 Years 4-5 Years 0-1 Years 1-2 Years 1-2 Years 1-2 Years 5-6 Yea
rs
## [4439] 5-6 Years 2-3 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [4446] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 5-6 Years 1-2 Years 4-5 Yea
rs
## [4453] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 4-5 Yea
rs
## [4460] 0-1 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Yea
```

```
rs
## [4467] 0-1 Years 4-5 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 6-7 Yea
rs
## [4474] 2-3 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 5-6 Yea
rs
## [4481] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [4488] 0-1 Years 4-5 Years 6-7 Years 5-6 Years 0-1 Years 5-6 Years 1-2 Yea
rs
## [4495] 0-1 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [4502] 4-5 Years 5-6 Years 1-2 Years 4-5 Years 6-7 Years 6-7 Years 0-1 Yea
rs
## [4509] 1-2 Years 0-1 Years 4-5 Years 1-2 Years 6-7 Years 6-7 Years 2-3 Yea
rs
## [4516] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Yea
rs
## [4523] 2-3 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Years 4-5 Years 4-5 Yea
rs
## [4530] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Yea
rs
## [4537] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Yea
rs
## [4544] 4-5 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Yea
rs
## [4551] 6-7 Years 5-6 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Yea
rs
## [4558] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [4565] 0-1 Years 6-7 Years 6-7 Years 2-3 Years 2-3 Years 1-2 Years 0-1 Yea
rs
## [4572] 1-2 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Yea
rs
## [4579] 0-1 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years 6-7 Years 6-7 Yea
rs
## [4586] 0-1 Years 6-7 Years 2-3 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Yea
rs
## [4593] 4-5 Years 0-1 Years 1-2 Years 6-7 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [4600] 5-6 Years 5-6 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [4607] 0-1 Years 0-1 Years 5-6 Years 2-3 Years 6-7 Years 6-7 Years 6-7 Yea
rs
## [4614] 5-6 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [4621] 6-7 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [4628] 5-6 Years 0-1 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [4635] 0-1 Years 4-5 Years 4-5 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Yea
```

```
rs
## [4642] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [4649] 0-1 Years 6-7 Years 4-5 Years 1-2 Years 1-2 Years 2-3 Years 4-5 Yea
rs
## [4656] 2-3 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Yea
rs
## [4663] 1-2 Years 0-1 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 0-1 Yea
rs
## [4670] 5-6 Years 4-5 Years 2-3 Years 1-2 Years 2-3 Years 2-3 Years 4-5 Yea
rs
## [4677] 1-2 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 2-3 Yea
rs
## [4684] 1-2 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Yea
rs
## [4691] 2-3 Years 5-6 Years 1-2 Years 5-6 Years 1-2 Years 2-3 Years 5-6 Yea
rs
## [4698] 6-7 Years 6-7 Years 5-6 Years 0-1 Years 1-2 Years 5-6 Years 1-2 Yea
rs
## [4705] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 5-6 Years 5-6 Years 0-1 Yea
rs
## [4712] 2-3 Years 5-6 Years 5-6 Years 6-7 Years 6-7 Years 6-7 Years 4-5 Yea
rs
## [4719] 1-2 Years 2-3 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 5-6 Yea
rs
## [4726] 0-1 Years 6-7 Years 5-6 Years 4-5 Years 6-7 Years 2-3 Years 1-2 Yea
rs
## [4733] 6-7 Years 0-1 Years 4-5 Years 4-5 Years 5-6 Years 6-7 Years 0-1 Yea
rs
## [4740] 0-1 Years 1-2 Years 1-2 Years 6-7 Years 5-6 Years 6-7 Years 2-3 Yea
rs
## [4747] 0-1 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [4754] 0-1 Years 6-7 Years 2-3 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Yea
rs
## [4761] 6-7 Years 6-7 Years 2-3 Years 5-6 Years 0-1 Years 4-5 Years 6-7 Yea
rs
## [4768] 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Yea
rs
## [4775] 5-6 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Yea
rs
## [4782] 5-6 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Yea
rs
## [4789] 5-6 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Yea
rs
## [4796] 5-6 Years 5-6 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [4803] 2-3 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years 2-3 Years 5-6 Yea
rs
## [4810] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 4-5 Years 1-2 Years 4-5 Yea
```

```
rs
## [4817] 5-6 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years 5-6 Years 6-7 Yea
rs
## [4824] 0-1 Years 6-7 Years 1-2 Years 0-1 Years 1-2 Years 4-5 Years 0-1 Yea
rs
## [4831] 5-6 Years 1-2 Years 2-3 Years 4-5 Years 6-7 Years 6-7 Years 2-3 Yea
rs
## [4838] 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Yea
rs
## [4845] 4-5 Years 1-2 Years 0-1 Years 4-5 Years 0-1 Years 4-5 Years 5-6 Yea
rs
## [4852] 0-1 Years 6-7 Years 5-6 Years 1-2 Years 6-7 Years 2-3 Years 1-2 Yea
rs
## [4859] 5-6 Years 6-7 Years 1-2 Years 4-5 Years 0-1 Years 5-6 Years 6-7 Yea
rs
## [4866] 0-1 Years 1-2 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Years 5-6 Yea
rs
## [4873] 6-7 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years 2-3 Years 2-3 Yea
rs
## [4880] 4-5 Years 5-6 Years 2-3 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Yea
rs
## [4887] 0-1 Years 4-5 Years 4-5 Years 4-5 Years 5-6 Years 0-1 Years 1-2 Yea
rs
## [4894] 0-1 Years 5-6 Years 4-5 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Yea
rs
## [4901] 4-5 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 5-6 Years 6-7 Yea
rs
## [4908] 6-7 Years 2-3 Years 5-6 Years 2-3 Years 6-7 Years 2-3 Years 1-2 Yea
rs
## [4915] 6-7 Years 1-2 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Yea
rs
## [4922] 4-5 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Yea
rs
## [4929] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [4936] 4-5 Years 4-5 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [4943] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [4950] 0-1 Years 0-1 Years 2-3 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [4957] 0-1 Years 1-2 Years 5-6 Years 0-1 Years 5-6 Years 1-2 Years 1-2 Yea
rs
## [4964] 4-5 Years 2-3 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [4971] 0-1 Years 1-2 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [4978] 1-2 Years 0-1 Years 5-6 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Yea
rs
## [4985] 4-5 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Yea
```

```
rs
## [4992] 5-6 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [4999] 6-7 Years 1-2 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Yea
rs
## [5006] 4-5 Years 1-2 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Yea
rs
## [5013] 0-1 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years 4-5 Years 6-7 Yea
rs
## [5020] 1-2 Years 4-5 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [5027] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [5034] 0-1 Years 4-5 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [5041] 1-2 Years 1-2 Years 1-2 Years 1-2 Years 1-2 Years 2-3 Years 0-1 Yea
rs
## [5048] 4-5 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 1-2 Years 1-2 Yea
rs
## [5055] 6-7 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years 1-2 Yea
rs
## [5062] 5-6 Years 4-5 Years 1-2 Years 0-1 Years 2-3 Years 4-5 Years 2-3 Yea
rs
## [5069] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Years 1-2 Years 5-6 Yea
rs
## [5076] 4-5 Years 2-3 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 5-6 Yea
rs
## [5083] 1-2 Years 4-5 Years 1-2 Years 4-5 Years 4-5 Years 0-1 Years 5-6 Yea
rs
## [5090] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years 5-6 Yea
rs
## [5097] 6-7 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Yea
rs
## [5104] 2-3 Years 1-2 Years 4-5 Years 5-6 Years 4-5 Years 1-2 Years 6-7 Yea
rs
## [5111] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 5-6 Years 4-5 Years 0-1 Yea
rs
## [5118] 6-7 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years 1-2 Yea
rs
## [5125] 2-3 Years 0-1 Years 5-6 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Yea
rs
## [5132] 4-5 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [5139] 6-7 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Yea
rs
## [5146] 6-7 Years 0-1 Years 2-3 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [5153] 5-6 Years 4-5 Years 1-2 Years 2-3 Years 1-2 Years 1-2 Years 6-7 Yea
rs
## [5160] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Yea
```

```
rs
## [5167] 6-7 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [5174] 0-1 Years 0-1 Years 1-2 Years 2-3 Years 2-3 Years 5-6 Years 0-1 Yea
rs
## [5181] 6-7 Years 6-7 Years 0-1 Years 2-3 Years 6-7 Years 5-6 Years 0-1 Yea
rs
## [5188] 4-5 Years 2-3 Years 0-1 Years 2-3 Years 1-2 Years 5-6 Years 6-7 Yea
rs
## [5195] 1-2 Years 6-7 Years 6-7 Years 6-7 Years 4-5 Years 5-6 Years 6-7 Yea
rs
## [5202] 0-1 Years 5-6 Years 0-1 Years 4-5 Years 4-5 Years 4-5 Years 1-2 Yea
rs
## [5209] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Yea
rs
## [5216] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [5223] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [5230] 4-5 Years 5-6 Years 1-2 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [5237] 4-5 Years 2-3 Years 2-3 Years 6-7 Years 6-7 Years 5-6 Years 1-2 Yea
rs
## [5244] 1-2 Years 4-5 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [5251] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 6-7 Years 2-3 Years 5-6 Yea
rs
## [5258] 4-5 Years 6-7 Years 2-3 Years 2-3 Years 5-6 Years 5-6 Years 5-6 Yea
rs
## [5265] 6-7 Years 6-7 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [5272] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [5279] 5-6 Years 6-7 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [5286] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Yea
rs
## [5293] 4-5 Years 2-3 Years 5-6 Years 5-6 Years 5-6 Years 5-6 Years 5-6 Yea
rs
## [5300] 2-3 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years 1-2 Years 4-5 Yea
rs
## [5307] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Yea
rs
## [5314] 5-6 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [5321] 4-5 Years 6-7 Years 2-3 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [5328] 2-3 Years 5-6 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Years 1-2 Yea
rs
## [5335] 5-6 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years 2-3 Years 4-5 Yea
```

```
rs
## [5342] 0-1 Years 4-5 Years 5-6 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Yea
rs
## [5349] 2-3 Years 6-7 Years 5-6 Years 0-1 Years 2-3 Years 1-2 Years 0-1 Yea
rs
## [5356] 4-5 Years 2-3 Years 5-6 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [5363] 6-7 Years 6-7 Years 1-2 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Yea
rs
## [5370] 2-3 Years 1-2 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [5377] 1-2 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years 2-3 Years 5-6 Yea
rs
## [5384] 2-3 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [5391] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 0-1 Years 2-3 Yea
rs
## [5398] 0-1 Years 0-1 Years 5-6 Years 2-3 Years 2-3 Years 0-1 Years 5-6 Yea
rs
## [5405] 4-5 Years 2-3 Years 6-7 Years 6-7 Years 5-6 Years 2-3 Years 6-7 Yea
rs
## [5412] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 1-2 Years 5-6 Years 1-2 Yea
rs
## [5419] 1-2 Years 6-7 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Years 6-7 Yea
rs
## [5426] 2-3 Years 5-6 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [5433] 0-1 Years 5-6 Years 2-3 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [5440] 2-3 Years 1-2 Years 6-7 Years 6-7 Years 2-3 Years 4-5 Years 6-7 Yea
rs
## [5447] 0-1 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 4-5 Yea
rs
## [5454] 5-6 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [5461] 2-3 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years 0-1 Yea
rs
## [5468] 5-6 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years 1-2 Years 1-2 Yea
rs
## [5475] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [5482] 0-1 Years 2-3 Years 5-6 Years 6-7 Years 0-1 Years 5-6 Years 2-3 Yea
rs
## [5489] 4-5 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [5496] 0-1 Years 4-5 Years 5-6 Years 0-1 Years 1-2 Years 5-6 Years 1-2 Yea
rs
## [5503] 1-2 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [5510] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Yea
```

```
rs
## [5517] 0-1 Years 6-7 Years 2-3 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Yea
rs
## [5524] 0-1 Years 4-5 Years 5-6 Years 5-6 Years 6-7 Years 4-5 Years 0-1 Yea
rs
## [5531] 6-7 Years 6-7 Years 2-3 Years 1-2 Years 1-2 Years 5-6 Years 0-1 Yea
rs
## [5538] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Yea
rs
## [5545] 5-6 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Yea
rs
## [5552] 1-2 Years 1-2 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Yea
rs
## [5559] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Yea
rs
## [5566] 1-2 Years 6-7 Years 5-6 Years 4-5 Years 0-1 Years 4-5 Years 6-7 Yea
rs
## [5573] 6-7 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Yea
rs
## [5580] 6-7 Years 4-5 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [5587] 2-3 Years 4-5 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 1-2 Yea
rs
## [5594] 2-3 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Yea
rs
## [5601] 0-1 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [5608] 4-5 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 6-7 Yea
rs
## [5615] 6-7 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Yea
rs
## [5622] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Yea
rs
## [5629] 1-2 Years 0-1 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [5636] 1-2 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Yea
rs
## [5643] 1-2 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Yea
rs
## [5650] 2-3 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [5657] 0-1 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Yea
rs
## [5664] 4-5 Years 0-1 Years 2-3 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Yea
rs
## [5671] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [5678] 4-5 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Yea
rs
## [5685] 5-6 Years 4-5 Years 0-1 Years 4-5 Years 4-5 Years 0-1 Years 6-7 Yea
```

```
rs
## [5692] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 6-7 Years 1-2 Years 6-7 Yea
rs
## [5699] 1-2 Years 1-2 Years 2-3 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Yea
rs
## [5706] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Yea
rs
## [5713] 1-2 Years 5-6 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [5720] 1-2 Years 2-3 Years 2-3 Years 2-3 Years 5-6 Years 0-1 Years 1-2 Yea
rs
## [5727] 4-5 Years 6-7 Years 1-2 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Yea
rs
## [5734] 6-7 Years 6-7 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Yea
rs
## [5741] 6-7 Years 1-2 Years 6-7 Years 4-5 Years 4-5 Years 6-7 Years 0-1 Yea
rs
## [5748] 2-3 Years 1-2 Years 5-6 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Yea
rs
## [5755] 1-2 Years 1-2 Years 5-6 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [5762] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 6-7 Yea
rs
## [5769] 4-5 Years 6-7 Years 4-5 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Yea
rs
## [5776] 5-6 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 5-6 Years 2-3 Yea
rs
## [5783] 0-1 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Yea
rs
## [5790] 2-3 Years 4-5 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Yea
rs
## [5797] 4-5 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years 2-3 Years 4-5 Yea
rs
## [5804] 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Yea
rs
## [5811] 1-2 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Yea
rs
## [5818] 0-1 Years 6-7 Years 6-7 Years 5-6 Years 6-7 Years 2-3 Years 1-2 Yea
rs
## [5825] 6-7 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years 2-3 Yea
rs
## [5832] 0-1 Years 1-2 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [5839] 5-6 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years 0-1 Yea
rs
## [5846] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Yea
rs
## [5853] 1-2 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 1-2 Years 6-7 Yea
rs
## [5860] 6-7 Years 0-1 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 0-1 Yea
```

```
rs
## [5867] 0-1 Years 4-5 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [5874] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Yea
rs
## [5881] 0-1 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years 4-5 Yea
rs
## [5888] 1-2 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [5895] 4-5 Years 4-5 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years 4-5 Yea
rs
## [5902] 5-6 Years 0-1 Years 5-6 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [5909] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years 2-3 Yea
rs
## [5916] 6-7 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Years 2-3 Yea
rs
## [5923] 6-7 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Yea
rs
## [5930] 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [5937] 4-5 Years 0-1 Years 2-3 Years 1-2 Years 5-6 Years 2-3 Years 0-1 Yea
rs
## [5944] 0-1 Years 0-1 Years 5-6 Years 4-5 Years 2-3 Years 6-7 Years 6-7 Yea
rs
## [5951] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Yea
rs
## [5958] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Yea
rs
## [5965] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [5972] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Yea
rs
## [5979] 4-5 Years 5-6 Years 1-2 Years 4-5 Years 1-2 Years 1-2 Years 1-2 Yea
rs
## [5986] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [5993] 6-7 Years 0-1 Years 4-5 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Yea
rs
## [6000] 2-3 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Yea
rs
## [6007] 1-2 Years 4-5 Years 1-2 Years 5-6 Years 1-2 Years 4-5 Years 0-1 Yea
rs
## [6014] 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Yea
rs
## [6021] 2-3 Years 1-2 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 1-2 Yea
rs
## [6028] 2-3 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 6-7 Years 2-3 Yea
rs
## [6035] 0-1 Years 6-7 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Yea
```

```
rs
## [6042] 0-1 Years 4-5 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Yea
rs
## [6049] 2-3 Years 4-5 Years 6-7 Years 1-2 Years 4-5 Years 4-5 Years 2-3 Yea
rs
## [6056] 0-1 Years 5-6 Years 1-2 Years 0-1 Years 4-5 Years 0-1 Years 2-3 Yea
rs
## [6063] 5-6 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [6070] 5-6 Years 6-7 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [6077] 6-7 Years 6-7 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Yea
rs
## [6084] 6-7 Years 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Yea
rs
## [6091] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [6098] 6-7 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Years 1-2 Yea
rs
## [6105] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [6112] 4-5 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Yea
rs
## [6119] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 5-6 Yea
rs
## [6126] 1-2 Years 1-2 Years 5-6 Years 1-2 Years 5-6 Years 5-6 Years 4-5 Yea
rs
## [6133] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years 6-7 Yea
rs
## [6140] 0-1 Years 0-1 Years 5-6 Years 4-5 Years 5-6 Years 1-2 Years 6-7 Yea
rs
## [6147] 2-3 Years 4-5 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Yea
rs
## [6154] 5-6 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [6161] 2-3 Years 0-1 Years 5-6 Years 1-2 Years 4-5 Years 0-1 Years 2-3 Yea
rs
## [6168] 4-5 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Yea
rs
## [6175] 0-1 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Yea
rs
## [6182] 6-7 Years 6-7 Years 4-5 Years 4-5 Years 5-6 Years 4-5 Years 0-1 Yea
rs
## [6189] 1-2 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years 1-2 Years 6-7 Yea
rs
## [6196] 0-1 Years 6-7 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 0-1 Yea
rs
## [6203] 1-2 Years 6-7 Years 1-2 Years 4-5 Years 5-6 Years 4-5 Years 6-7 Yea
rs
## [6210] 2-3 Years 2-3 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 0-1 Yea
```

```
rs
## [6217] 5-6 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [6224] 0-1 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [6231] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 1-2 Years 2-3 Yea
rs
## [6238] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [6245] 5-6 Years 5-6 Years 5-6 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Yea
rs
## [6252] 0-1 Years 5-6 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [6259] 0-1 Years 5-6 Years 1-2 Years 6-7 Years 4-5 Years 2-3 Years 4-5 Yea
rs
## [6266] 0-1 Years 2-3 Years 0-1 Years 1-2 Years 2-3 Years 2-3 Years 2-3 Yea
rs
## [6273] 5-6 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Yea
rs
## [6280] 1-2 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Yea
rs
## [6287] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 4-5 Yea
rs
## [6294] 1-2 Years 0-1 Years 4-5 Years 2-3 Years 6-7 Years 4-5 Years 5-6 Yea
rs
## [6301] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [6308] 2-3 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years 5-6 Years 0-1 Yea
rs
## [6315] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 2-3 Yea
rs
## [6322] 2-3 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Yea
rs
## [6329] 6-7 Years 4-5 Years 1-2 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Yea
rs
## [6336] 1-2 Years 5-6 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Yea
rs
## [6343] 4-5 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Yea
rs
## [6350] 2-3 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years 6-7 Yea
rs
## [6357] 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [6364] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Yea
rs
## [6371] 4-5 Years 1-2 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Yea
rs
## [6378] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Yea
rs
## [6385] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Yea
```

```
rs
## [6392] 4-5 Years 5-6 Years 2-3 Years 0-1 Years 4-5 Years 2-3 Years 5-6 Yea
rs
## [6399] 6-7 Years 5-6 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years 5-6 Yea
rs
## [6406] 5-6 Years 4-5 Years 1-2 Years 6-7 Years 4-5 Years 6-7 Years 0-1 Yea
rs
## [6413] 6-7 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years 5-6 Years 2-3 Yea
rs
## [6420] 6-7 Years 2-3 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Years 5-6 Yea
rs
## [6427] 4-5 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 2-3 Yea
rs
## [6434] 5-6 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years 2-3 Yea
rs
## [6441] 2-3 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 0-1 Years 5-6 Yea
rs
## [6448] 5-6 Years 5-6 Years 0-1 Years 2-3 Years 6-7 Years 1-2 Years 4-5 Yea
rs
## [6455] 4-5 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Years 5-6 Years 4-5 Yea
rs
## [6462] 5-6 Years 0-1 Years 5-6 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Yea
rs
## [6469] 1-2 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [6476] 1-2 Years 5-6 Years 6-7 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Yea
rs
## [6483] 0-1 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [6490] 0-1 Years 2-3 Years 0-1 Years 1-2 Years 1-2 Years 2-3 Years 0-1 Yea
rs
## [6497] 4-5 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 4-5 Yea
rs
## [6504] 6-7 Years 0-1 Years 5-6 Years 1-2 Years 5-6 Years 4-5 Years 0-1 Yea
rs
## [6511] 4-5 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Yea
rs
## [6518] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years 1-2 Yea
rs
## [6525] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Yea
rs
## [6532] 2-3 Years 1-2 Years 2-3 Years 5-6 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [6539] 0-1 Years 2-3 Years 2-3 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Yea
rs
## [6546] 0-1 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Yea
rs
## [6553] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 1-2 Yea
rs
## [6560] 5-6 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years 0-1 Years 6-7 Yea
```

```
rs
## [6567] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Yea
rs
## [6574] 4-5 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Yea
rs
## [6581] 5-6 Years 5-6 Years 6-7 Years 1-2 Years 5-6 Years 4-5 Years 4-5 Yea
rs
## [6588] 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Yea
rs
## [6595] 1-2 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Yea
rs
## [6602] 6-7 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Yea
rs
## [6609] 1-2 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Yea
rs
## [6616] 0-1 Years 4-5 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 4-5 Yea
rs
## [6623] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Yea
rs
## [6630] 6-7 Years 1-2 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [6637] 0-1 Years 6-7 Years 5-6 Years 5-6 Years 2-3 Years 1-2 Years 2-3 Yea
rs
## [6644] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Yea
rs
## [6651] 0-1 Years 2-3 Years 2-3 Years 2-3 Years 0-1 Years 6-7 Years 4-5 Yea
rs
## [6658] 5-6 Years 2-3 Years 6-7 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Yea
rs
## [6665] 2-3 Years 4-5 Years 2-3 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Yea
rs
## [6672] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 4-5 Years 1-2 Yea
rs
## [6679] 1-2 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Yea
rs
## [6686] 4-5 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 4-5 Yea
rs
## [6693] 4-5 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Yea
rs
## [6700] 5-6 Years 6-7 Years 2-3 Years 1-2 Years 0-1 Years 5-6 Years 1-2 Yea
rs
## [6707] 0-1 Years 6-7 Years 1-2 Years 5-6 Years 4-5 Years 5-6 Years 2-3 Yea
rs
## [6714] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Yea
rs
## [6721] 6-7 Years 5-6 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 0-1 Yea
rs
## [6728] 1-2 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 2-3 Yea
rs
## [6735] 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 4-5 Yea
```

```
rs
## [6742] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years 5-6 Yea
rs
## [6749] 0-1 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Yea
rs
## [6756] 4-5 Years 1-2 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Yea
rs
## [6763] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 5-6 Years 6-7 Yea
rs
## [6770] 4-5 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years 0-1 Years 5-6 Yea
rs
## [6777] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Yea
rs
## [6784] 1-2 Years 1-2 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years 0-1 Yea
rs
## [6791] 6-7 Years 1-2 Years 5-6 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Yea
rs
## [6798] 2-3 Years 1-2 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 4-5 Yea
rs
## [6805] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Yea
rs
## [6812] 0-1 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years 6-7 Yea
rs
## [6819] 0-1 Years 5-6 Years 5-6 Years 1-2 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [6826] 2-3 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [6833] 5-6 Years 1-2 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [6840] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Yea
rs
## [6847] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years 4-5 Yea
rs
## [6854] 5-6 Years 0-1 Years 4-5 Years 5-6 Years 5-6 Years 2-3 Years 6-7 Yea
rs
## [6861] 4-5 Years 1-2 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Yea
rs
## [6868] 6-7 Years 1-2 Years 4-5 Years 5-6 Years 5-6 Years 6-7 Years 6-7 Yea
rs
## [6875] 2-3 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Yea
rs
## [6882] 2-3 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Yea
rs
## [6889] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Yea
rs
## [6896] 5-6 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years 2-3 Yea
rs
## [6903] 5-6 Years 2-3 Years 6-7 Years 2-3 Years 2-3 Years 4-5 Years 0-1 Yea
rs
## [6910] 0-1 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Yea
```

```
rs
## [6917] 4-5 Years 6-7 Years 2-3 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Yea
rs
## [6924] 5-6 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 2-3 Yea
rs
## [6931] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Yea
rs
## [6938] 2-3 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Yea
rs
## [6945] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Yea
rs
## [6952] 5-6 Years 4-5 Years 1-2 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Yea
rs
## [6959] 1-2 Years 4-5 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Yea
rs
## [6966] 6-7 Years 5-6 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Yea
rs
## [6973] 5-6 Years 5-6 Years 5-6 Years 1-2 Years 6-7 Years 1-2 Years 6-7 Yea
rs
## [6980] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years 2-3 Years 4-5 Yea
rs
## [6987] 2-3 Years 2-3 Years 1-2 Years 1-2 Years 2-3 Years 0-1 Years 6-7 Yea
rs
## [6994] 5-6 Years 4-5 Years 5-6 Years 4-5 Years 2-3 Years 1-2 Years 0-1 Yea
rs
## [7001] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Yea
rs
## [7008] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Yea
rs
## [7015] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Yea
rs
## [7022] 0-1 Years 6-7 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 1-2 Yea
rs
## [7029] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 6-7 Yea
rs
## [7036] 1-2 Years 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Yea
rs
## [7043] 6-7 Years
## Levels: 0-1 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years

tablechurn$Tenure_Range <- cut(tablechurn$Tenure_Range,6,labels = c('0-1 Year
s','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))

#Checking if there are any NULL values in any of the columns
table(is.na(tablechurn))

##
##  FALSE    TRUE
## 154935      11
```

```r
str_detect(tablechurn,'NA')
```

```
##  [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FAL
SE
## [13] FALSE FALSE FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE
```

```r
setDT(tablechurn)
tablechurn[is.na(TotalCharges),NROW(TotalCharges)]
```

```
## [1] 11
```

```r
#There are 11 rows out of 7043 rows that have null values.Hence removing thes
e rows since they are only 0.15% of total so we can afford to drop them

tablechurn <- tablechurn[complete.cases(tablechurn), ]

#Replacing 'No Internet Service' values in OnlineSecurity,OnlineBackup Device
Protection,TechSupport,StreamingTV and StreamingMovies columns with 'No'

tablechurn$OnlineSecurity[tablechurn$OnlineSecurity=='No internet service'] <
- 'No'
tablechurn$OnlineBackup[tablechurn$OnlineBackup=='No internet service'] <- 'N
o'
tablechurn$DeviceProtection[tablechurn$DeviceProtection=='No internet service
'] <- 'No'
tablechurn$TechSupport[tablechurn$TechSupport=='No internet service'] <- 'No'
tablechurn$StreamingTV[tablechurn$StreamingTV=='No internet service'] <- 'No'
tablechurn$StreamingMovies[tablechurn$StreamingMovies=='No internet service']
<- 'No'

#Deleting the unused levels from the factor variables

tablechurn$OnlineSecurity <- factor(tablechurn$OnlineSecurity)
tablechurn$OnlineBackup <- factor(tablechurn$OnlineBackup)
tablechurn$DeviceProtection <- factor(tablechurn$DeviceProtection)
tablechurn$TechSupport <- factor(tablechurn$TechSupport)
tablechurn$StreamingTV <- factor(tablechurn$StreamingTV)
tablechurn$StreamingMovies <- factor(tablechurn$StreamingMovies)

##Checking relationships between our dependent variable and each of our indep
endent categorical variable.

xtabs(~Churn+Gender,data=tablechurn)
```

```
##       Gender
## Churn Female Male
##   No    2544 2619
##   Yes    939  930
```

```r
xtabs(~Churn+SeniorCitizen,data=tablechurn)
```

```
##      SeniorCitizen
## Churn   no  yes
##    No 4497  666
##   Yes 1393  476
```

```
xtabs(~Churn+Partner,data=tablechurn)
```

```
##      Partner
## Churn   No  Yes
##    No 2439 2724
##   Yes 1200  669
```

```
xtabs(~Churn+Dependents,data=tablechurn)
```

```
##      Dependents
## Churn   No  Yes
##    No 3390 1773
##   Yes 1543  326
```

```
xtabs(~Churn+Tenure_Range,data=tablechurn)
```

```
##      Tenure_Range
## Churn 0-1 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years
##    No      1138       730       652       617       712      1314
##   Yes      1037       294       180       145       120        93
```

```
xtabs(~Churn+PhoneService,data=tablechurn)
```

```
##      PhoneService
## Churn   No  Yes
##    No  510 4653
##   Yes  170 1699
```

```
xtabs(~Churn+MultipleLines,data=tablechurn)
```

```
##      MultipleLines
## Churn   No No phone service  Yes
##    No 2536              510 2117
##   Yes  849              170  850
```

```
xtabs(~Churn+InternetService,data=tablechurn)
```

```
##      InternetService
## Churn  DSL Fiber optic   No
##    No 1957        1799 1407
##   Yes  459        1297  113
```

```
xtabs(~Churn+OnlineBackup,data=tablechurn)
```

```
##      OnlineBackup
## Churn   No  Yes
##    No 3261 1902
##   Yes 1346  523
```

```r
xtabs(~Churn+OnlineSecurity,data=tablechurn)
```

```
##      OnlineSecurity
## Churn   No  Yes
##   No  3443 1720
##   Yes 1574  295
```

```r
xtabs(~Churn+DeviceProtection,data=tablechurn)
```

```
##      DeviceProtection
## Churn   No  Yes
##   No  3290 1873
##   Yes 1324  545
```

```r
xtabs(~Churn+TechSupport,data=tablechurn)
```

```
##      TechSupport
## Churn   No  Yes
##   No  3433 1730
##   Yes 1559  310
```

```r
xtabs(~Churn+StreamingTV,data=tablechurn)
```

```
##      StreamingTV
## Churn   No  Yes
##   No  3274 1889
##   Yes 1055  814
```

```r
xtabs(~Churn+StreamingMovies,data=tablechurn)
```

```
##      StreamingMovies
## Churn   No  Yes
##   No  3250 1913
##   Yes 1051  818
```

```r
xtabs(~Churn+Contract,data=tablechurn)
```

```
##      Contract
## Churn Month-to-month One year Two year
##   No            2220     1306     1637
##   Yes           1655      166       48
```

```r
xtabs(~Churn+PaperlessBilling,data=tablechurn)
```

```
##      PaperlessBilling
## Churn   No  Yes
##   No  2395 2768
##   Yes  469 1400
```

```r
xtabs(~Churn+PaymentMethod,data=tablechurn)
```

```
##      PaymentMethod
## Churn Bank transfer (automatic) Credit card (automatic) Electronic check
```

```
##    No                             1284                1289                1294
##    Yes                             258                 232                 1071
##       PaymentMethod
## Churn Mailed check
##    No           1296
##    Yes           308
```

```
logistic_simple <- glm(Churn~SeniorCitizen+Partner+Dependents+Tenure_Range+
                        PhoneService+InternetService+OnlineBackup+OnlineSecurity+
                        DeviceProtection+TechSupport+Contract+
                        PaperlessBilling+PaymentMethod, data=tablechurn, family="binomial")
summary(logistic_simple)

##
## Call:
## glm(formula = Churn ~ SeniorCitizen + Partner + Dependents +
##      Tenure_Range + PhoneService + InternetService + OnlineBackup +
##      OnlineSecurity + DeviceProtection + TechSupport + Contract +
##      PaperlessBilling + PaymentMethod, family = "binomial", data = tablechurn)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -1.8299  -0.6813  -0.2962   0.7144   3.0380
##
## Coefficients:
##                                Estimate Std. Error z value Pr(>|z|)
## (Intercept)                    -0.18898    0.14636  -1.291 0.196623
## SeniorCitizenyes                0.23893    0.08391   2.847 0.004410 **
## PartnerYes                     -0.01211    0.07720  -0.157 0.875307
## DependentsYes                  -0.14288    0.08924  -1.601 0.109351
## Tenure_Range1-2 Years          -0.82050    0.09518  -8.621  < 2e-16 ***
## Tenure_Range2-3 Years          -1.15770    0.11255 -10.286  < 2e-16
```

```
***
## Tenure_Range4-5 Years                      -1.07778     0.12593   -8.559  < 2e-16
***
## Tenure_Range5-6 Years                      -1.29415     0.13682   -9.459  < 2e-16
***
## Tenure_Range6-7 Years                      -1.50332     0.16432   -9.149  < 2e-16
***
## PhoneServiceYes                            -0.43054     0.12379   -3.478 0.000505
***
## InternetServiceFiber optic                 1.04119     0.09013   11.552  < 2e-16
***
## InternetServiceNo                          -0.93730     0.13656   -6.864 6.71e-12
***
## OnlineBackupYes                            -0.15218     0.07579   -2.008 0.044647
*
## OnlineSecurityYes                          -0.40059     0.08386   -4.777 1.78e-06
***
## DeviceProtectionYes                         0.06687     0.07671    0.872 0.383348
## TechSupportYes                             -0.28669     0.08438   -3.397 0.000680
***
## ContractOne year                           -0.73328     0.10626   -6.901 5.17e-12
***
## ContractTwo year                           -1.61097     0.18056   -8.922  < 2e-16
***
## PaperlessBillingYes                         0.37588     0.07394    5.084 3.70e-07
***
## PaymentMethodCredit card (automatic) -0.08137     0.11301   -0.720 0.471521
## PaymentMethodElectronic check              0.36328     0.09358    3.882 0.000104
***
## PaymentMethodMailed check                  -0.02452     0.11367   -0.216 0.829239
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 8143.4  on 7031  degrees of freedom
## Residual deviance: 5896.7  on 7010  degrees of freedom
## AIC: 5940.7
##
## Number of Fisher Scoring iterations: 6
```

Calculating the p-value for R^2 for this model

```
ll.null <- logistic_simple$null.deviance/-2
ll.proposed <- logistic_simple$deviance/-2
(ll.null - ll.proposed) / ll.null

## [1] 0.275893
```

```
1 - pchisq(2*(ll.proposed - ll.null), df=(length(logistic_simple$coefficients
)-1))
```

[1] 0

##Performing regression using all variables including StreamingTV and Streaming Movies

```
logistic <- glm(Churn~SeniorCitizen+Partner+Dependents+Tenure_Range+
                    PhoneService+InternetService+OnlineBackup+OnlineSecurity+
                    DeviceProtection+TechSupport+StreamingTV+StreamingMovies+Contract+
                    PaperlessBilling+PaymentMethod,data=tablechurn, family="binomial")
summary(logistic)
```

```
##
## Call:
## glm(formula = Churn ~ SeniorCitizen + Partner + Dependents +
##      Tenure_Range + PhoneService + InternetService + OnlineBackup +
##      OnlineSecurity + DeviceProtection + TechSupport + StreamingTV +
##      StreamingMovies + Contract + PaperlessBilling + PaymentMethod,
##      family = "binomial", data = tablechurn)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -1.9509  -0.6761  -0.2862   0.6852   3.1013
##
## Coefficients:
##                               Estimate Std. Error z value Pr(>|z|)
## (Intercept)                   -0.268442   0.147838   -1.816 0.069404
## .
## SeniorCitizenyes              0.233841   0.084121    2.780 0.005439
## **
## PartnerYes                    -0.021832   0.077456   -0.282 0.778053
## DependentsYes                 -0.135752   0.089529   -1.516 0.129446
## Tenure_Range1-2 Years         -0.868833   0.096153   -9.036  < 2e-16
## ***
## Tenure_Range2-3 Years         -1.229227   0.114174  -10.766  < 2e-16
## ***
## Tenure_Range4-5 Years         -1.161742   0.127917   -9.082  < 2e-16
## ***
## Tenure_Range5-6 Years         -1.409129   0.139231  -10.121  < 2e-16
## ***
## Tenure_Range6-7 Years         -1.629799   0.166836   -9.769  < 2e-16
## ***
## PhoneServiceYes               -0.392387   0.124612   -3.149 0.001639
## **
## InternetServiceFiber optic     0.953028   0.091513   10.414  < 2e-16
```

```
***
## InternetServiceNo                          -0.851492    0.137644   -6.186 6.16e-10
***
## OnlineBackupYes                            -0.157162    0.076153   -2.064 0.039040
*
## OnlineSecurityYes                          -0.384573    0.084121   -4.572 4.84e-06
***
## DeviceProtectionYes                        -0.020375    0.078462   -0.260 0.795107
## TechSupportYes                             -0.334370    0.085226   -3.923 8.73e-05
***
## StreamingTVYes                              0.271152    0.079621    3.406 0.000660
***
## StreamingMoviesYes                          0.282140    0.079520    3.548 0.000388
***
## ContractOne year                           -0.793518    0.107181   -7.404 1.33e-13
***
## ContractTwo year                           -1.673931    0.181449   -9.225  < 2e-16
***
## PaperlessBillingYes                         0.336435    0.074525    4.514 6.35e-06
***
## PaymentMethodCredit card (automatic) -0.075260    0.113446   -0.663 0.507076
## PaymentMethodElectronic check          0.325815    0.094142    3.461 0.000538
***
## PaymentMethodMailed check              -0.004958    0.114123   -0.043 0.965346
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 8143.4  on 7031  degrees of freedom
## Residual deviance: 5861.7  on 7008  degrees of freedom
## AIC: 5909.7
##
## Number of Fisher Scoring iterations: 6
```

##Calculating p value for R^2 for this model

```
ll.null <- logistic$null.deviance/-2
ll.proposed <- logistic$deviance/-2
(ll.null - ll.proposed) / ll.null
```

```
## [1] 0.2801921
```

```
1 - pchisq(2*(ll.proposed - ll.null), df=(length(logistic$coefficients)-1))
```

```
## [1] 0
```

##Plotting the graphs to visually view this regression

```
predicted.data <- data.frame(probability.of.Churn=logistic$fitted.values,Chur
n=tablechurn$Churn)
```

```
predicted.data <- predicted.data[order(predicted.data$probability.of.Churn, d
ecreasing=FALSE),]
predicted.data$rank <- 1:nrow(predicted.data)
```

##Plotting the predicted probabilities for each samples probability of Churni
ng and using colors to visually analyze if they Churned or not

```
ggplot(data=predicted.data,aes(x=rank, y=probability.of.Churn)) +
  geom_point(aes(color=Churn), alpha=1, shape=4, stroke=2) +
  xlab("Index") +ylab("Predicted probability of Churning")
```
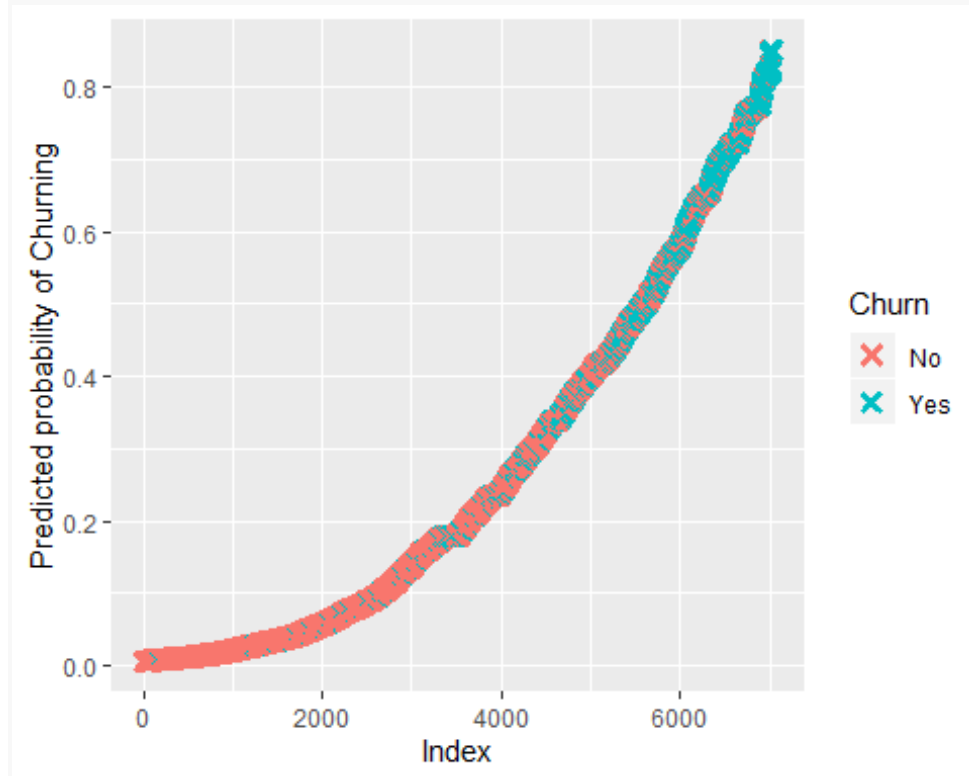

##Viewing the confusion matrix for this model

```
confusion_matrix(logistic)
```

```
##            Predicted No Predicted Yes Total
## Actual No          4674           489  5163
## Actual Yes          918           951  1869
## Total              5592          1440  7032
```

##ROC graph is a plot of the true positive rate against the false positive ra
te.Hence plotting it for visualization

```
roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE)
```

```
## Setting levels: control = No, case = Yes
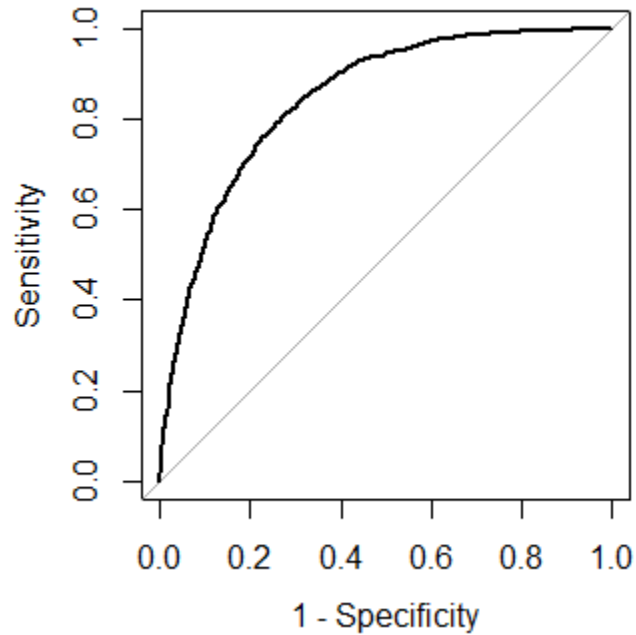
## Setting direction: controls < cases

##
## Call:
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.value
s,      plot = TRUE)
##
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869
cases (tablechurn$Churn Yes).
## Area under the curve: 0.8454
```
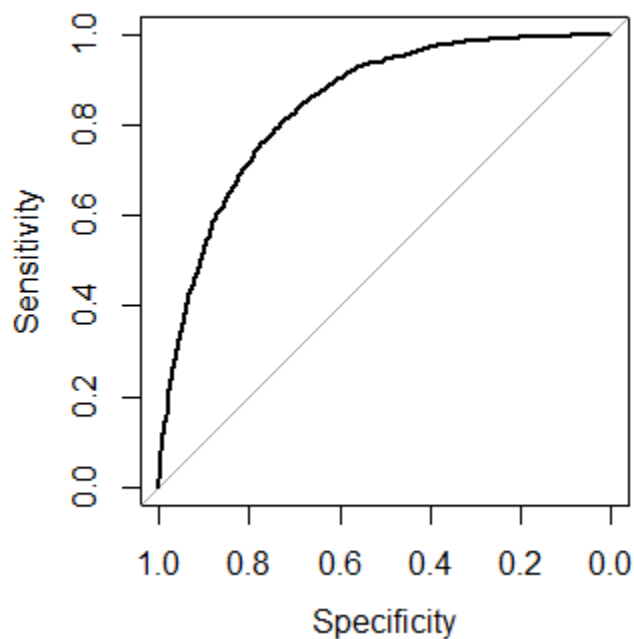


```r
par(pty='s')
roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE)
```

```
## Setting levels: control = No, case = Yes
## Setting direction: controls < cases
```

```
##
## Call:
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.value
s,      plot = TRUE)
##
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869
cases (tablechurn$Churn Yes).
## Area under the curve: 0.8454
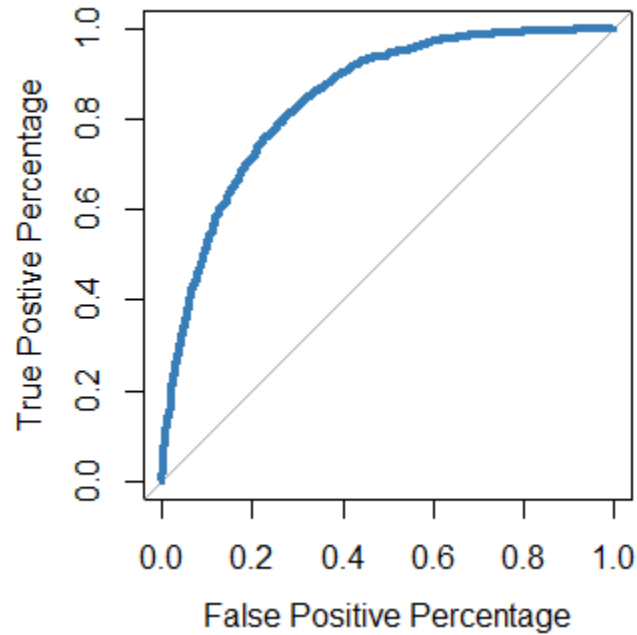```
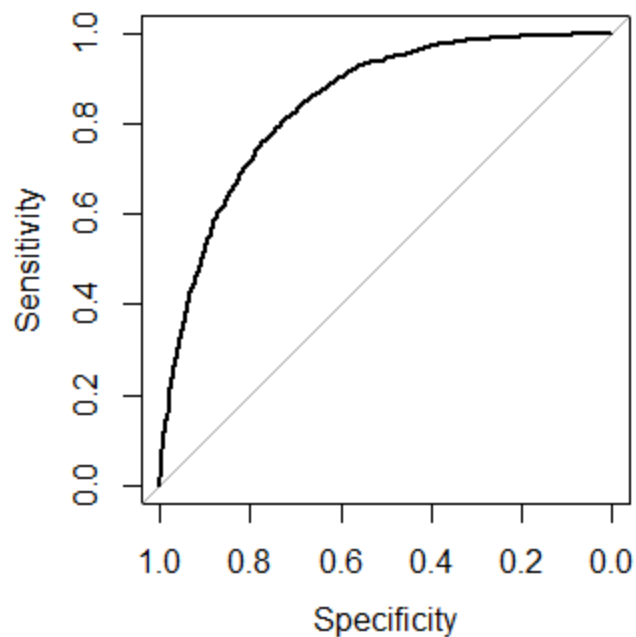
```
roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE)

## Setting levels: control = No, case = Yes
## Setting direction: controls < cases
```

```
##
## Call:
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.value
s,     plot = TRUE, legacy.axes = TRUE)
##
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869
cases (tablechurn$Churn Yes).
## Area under the curve: 0.8454
```

```
roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE, xlab
="False Positive Percentage", ylab="True Postive Percentage", col="#377eb8",
lwd=4)
```

```
## Setting levels: control = No, case = Yes
## Setting direction: controls < cases
```

```
##
## Call:
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.value
s,    plot = TRUE, legacy.axes = TRUE, xlab = "False Positive Percentage",
ylab = "True Postive Percentage", col = "#377eb8", lwd = 4)
##
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869
cases (tablechurn$Churn Yes).
## Area under the curve: 0.8454
```

```
## If we want to find out the optimal threshold we can store the data used to
make the ROC graph in a variable

roc.info <- roc(tablechurn$Churn, logistic$fitted.values, legacy.axes=TRUE)

## Setting levels: control = No, case = Yes
## Setting direction: controls < cases

str(roc.info)

## List of 15
##  $ percent          : logi FALSE
##  $ sensitivities    : num [1:4369] 1 1 1 1 1 1 1 1 1 1 ...
##  $ specificities    : num [1:4369] 0 0.000581 0.000775 0.005617 0.006198
...
##  $ thresholds       : num [1:4369] -Inf 0.00616 0.0063 0.00645 0.00653 ..
.
##  $ direction        : chr "<"
##  $ cases            : Named num [1:1869] 0.295 0.722 0.816 0.476 0.4 ...
##   ..- attr(*, "names")= chr [1:1869] "3" "5" "6" "9" ...
##  $ controls         : Named num [1:5163] 0.5535 0.0434 0.0491 0.4165 0.34
12 ...
##   ..- attr(*, "names")= chr [1:5163] "1" "2" "4" "7" ...
##  $ fun.sesp         :function (thresholds, controls, cases, direction)
##  $ auc              : 'auc' num 0.845
##   ..- attr(*, "partial.auc")= logi FALSE
##   ..- attr(*, "percent")= logi FALSE
##   ..- attr(*, "roc")=List of 15
```

```
##    .. ..$ percent            : logi FALSE
##    .. ..$ sensitivities     : num [1:4369] 1 1 1 1 1 1 1 1 1 1 ...
##    .. ..$ specificities     : num [1:4369] 0 0.000581 0.000775 0.005617 0.0
06198 ...
##    .. ..$ thresholds        : num [1:4369] -Inf 0.00616 0.0063 0.00645 0.00
653 ...
##    .. ..$ direction         : chr "<"
##    .. ..$ cases             : Named num [1:1869] 0.295 0.722 0.816 0.476 0.
4 ...
##    .. .. ..- attr(*, "names")= chr [1:1869] "3" "5" "6" "9" ...
##    .. ..$ controls          : Named num [1:5163] 0.5535 0.0434 0.0491 0.416
5 0.3412 ...
##    .. .. ..- attr(*, "names")= chr [1:5163] "1" "2" "4" "7" ...
##    .. ..$ fun.sesp          :function (thresholds, controls, cases, directi
on)
##    .. ..$ auc               : 'auc' num 0.845
##    .. .. ..- attr(*, "partial.auc")= logi FALSE
##    .. .. ..- attr(*, "percent")= logi FALSE
##    .. .. ..- attr(*, "roc")=List of 8
##    .. .. .. ..$ percent      : logi FALSE
##    .. .. .. ..$ sensitivities: num [1:4369] 1 1 1 1 1 1 1 1 1 1 ...
##    .. .. .. ..$ specificities: num [1:4369] 0 0.000581 0.000775 0.005617 0.
006198 ...
##    .. .. .. ..$ thresholds   : num [1:4369] -Inf 0.00616 0.0063 0.00645 0.0
0653 ...
##    .. .. .. ..$ direction    : chr "<"
##    .. .. .. ..$ cases        : Named num [1:1869] 0.295 0.722 0.816 0.476 0
.4 ...
##    .. .. .. .. ..- attr(*, "names")= chr [1:1869] "3" "5" "6" "9" ...
##    .. .. .. ..$ controls     : Named num [1:5163] 0.5535 0.0434 0.0491 0.41
65 0.3412 ...
##    .. .. .. .. ..- attr(*, "names")= chr [1:5163] "1" "2" "4" "7" ...
##    .. .. .. ..$ fun.sesp     :function (thresholds, controls, cases, direct
ion)
##    .. .. .. ..- attr(*, "class")= chr "roc"
##    .. ..$ call              : language roc.default(response = tablechurn$Ch
urn, predictor = logistic$fitted.values,     legacy.axes = TRUE)
##    .. ..$ original.predictor: Named num [1:7032] 0.5535 0.0434 0.295 0.0491
0.722 ...
##    .. .. ..- attr(*, "names")= chr [1:7032] "1" "2" "3" "4" ...
##    .. ..$ original.response : Factor w/ 2 levels "No","Yes": 1 1 2 1 2 2 1
1 2 1 ...
##    .. ..$ predictor         : Named num [1:7032] 0.5535 0.0434 0.295 0.0491
0.722 ...
##    .. .. ..- attr(*, "names")= chr [1:7032] "1" "2" "3" "4" ...
##    .. ..$ response          : Factor w/ 2 levels "No","Yes": 1 1 2 1 2 2 1
1 2 1 ...
##    .. ..$ levels            : chr [1:2] "No" "Yes"
##    .. ..- attr(*, "class")= chr "roc"
##  $ call              : language roc.default(response = tablechurn$Churn, p
```

```
redictor = logistic$fitted.values,      legacy.axes = TRUE)
##  $ original.predictor: Named num [1:7032] 0.5535 0.0434 0.295 0.0491 0.722
...
##   ..- attr(*, "names")= chr [1:7032] "1" "2" "3" "4" ...
##  $ original.response : Factor w/ 2 levels "No","Yes": 1 1 2 1 2 2 1 1 2 1
...
##  $ predictor         : Named num [1:7032] 0.5535 0.0434 0.295 0.0491 0.722
...
##   ..- attr(*, "names")= chr [1:7032] "1" "2" "3" "4" ...
##  $ response          : Factor w/ 2 levels "No","Yes": 1 1 2 1 2 2 1 1 2 1
...
##  $ levels            : chr [1:2] "No" "Yes"
##  - attr(*, "class")= chr "roc"

roc.df <- data.frame(tpp=roc.info$sensitivities*100, ## tpp = true positive p
ercentage
                     fpp=(1 - roc.info$specificities)*100, ## fpp = false pos
itive precentage
                     thresholds=roc.info$thresholds)

##This will show us the values for the upper right-hand corner of the ROC gra
ph, when the threshold is so low

head(roc.df)

##    tpp       fpp  thresholds
## 1 100 100.00000        -Inf
## 2 100  99.94189 0.006159113
## 3 100  99.92253 0.006298493
## 4 100  99.43831 0.006445415
## 5 100  99.38021 0.006526601
## 6 100  99.32210 0.006554029

##This will show us the values for the lower left-hand corner of the ROC grap
h, when the threshold is so high (infinity)
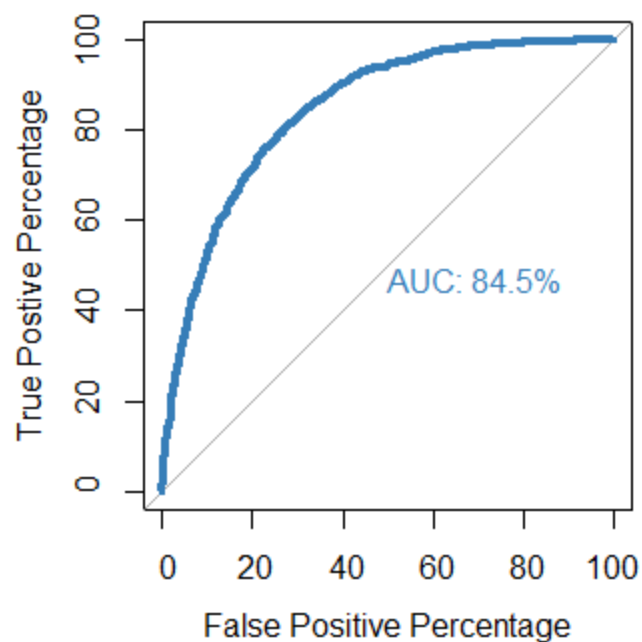
tail(roc.df)

##              tpp        fpp thresholds
## 4364 1.3911182 0.09684292  0.8283811
## 4365 1.2841091 0.09684292  0.8376412
## 4366 1.0165864 0.09684292  0.8467748
## 4367 0.8560728 0.07747434  0.8481903
## 4368 0.6420546 0.05810575  0.8495859
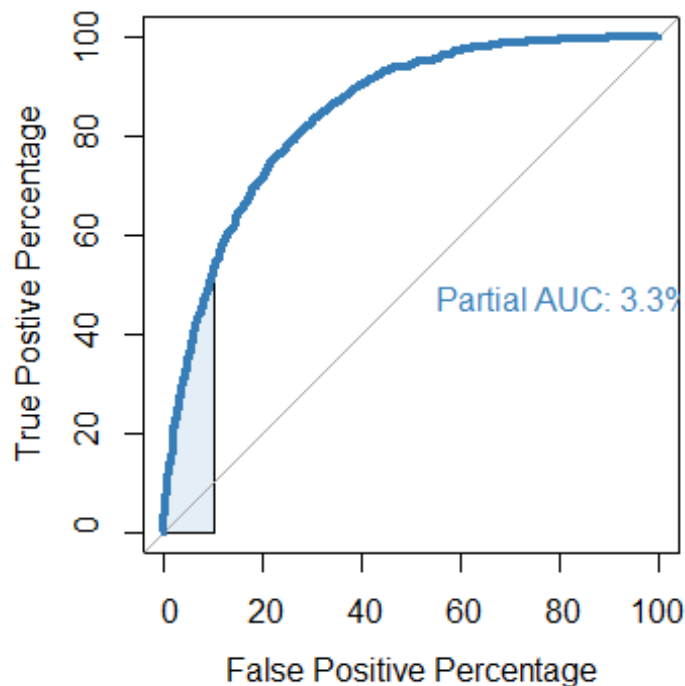## 4369 0.0000000 0.00000000        Inf

##Viewing graphs using percentage values
roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE, xlab
="False Positive Percentage", ylab="True Postive Percentage", col="#377eb8",
lwd=4, percent=TRUE, print.auc=TRUE)
```

```
## Setting levels: control = No, case = Yes
## Setting direction: controls < cases
```

```
##
## Call:
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.value
s,      percent = TRUE, plot = TRUE, legacy.axes = TRUE, xlab = "False Positiv
e Percentage",      ylab = "True Postive Percentage", col = "#377eb8", lwd = 4
,      print.auc = TRUE)
##
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869
cases (tablechurn$Churn Yes).
## Area under the curve: 84.54%
```



```
roc(tablechurn$Churn,logistic$fitted.values,plot=TRUE, legacy.axes=TRUE, xlab
="False Positive Percentage", ylab="True Postive Percentage", col="#377eb8",
lwd=4, percent=TRUE, print.auc=TRUE, partial.auc=c(100, 90), auc.polygon = TR
UE, auc.polygon.col = "#377eb822", print.auc.x=45)
```

```
## Setting levels: control = No, case = Yes
## Setting direction: controls < cases
```

```
##
## Call:
## roc.default(response = tablechurn$Churn, predictor = logistic$fitted.value
s,     percent = TRUE, plot = TRUE, legacy.axes = TRUE, xlab = "False Positiv
e Percentage",     ylab = "True Postive Percentage", col = "#377eb8", lwd = 4
,     print.auc = TRUE, partial.auc = c(100, 90), auc.polygon = TRUE,     auc
.polygon.col = "#377eb822", print.auc.x = 45)
##
## Data: logistic$fitted.values in 5163 controls (tablechurn$Churn No) < 1869
cases (tablechurn$Churn Yes).
## Partial area under the curve (specificity 100%-90%): 3.256%
```



```r
# Lets do two ROC plots to understand which model is better
roc(tablechurn$Churn, logistic_simple$fitted.values, plot=TRUE, legacy.axes=T
RUE, percent=TRUE, xlab="False Positive Percentage", ylab="True Postive Perce
ntage", col="#377eb8", lwd=4, print.auc=TRUE)
```

```
## Setting levels: control = No, case = Yes
## Setting direction: controls < cases
```

```
##
## Call:
## roc.default(response = tablechurn$Churn, predictor = logistic_simple$fitte
d.values,     percent = TRUE, plot = TRUE, legacy.axes = TRUE, xlab = "False
Positive Percentage",     ylab = "True Postive Percentage", col = "#377eb8",
```

```
lwd = 4,      print.auc = TRUE)
##
## Data: logistic_simple$fitted.values in 5163 controls (tablechurn$Churn No)
< 1869 cases (tablechurn$Churn Yes).
## Area under the curve: 84.34%
```
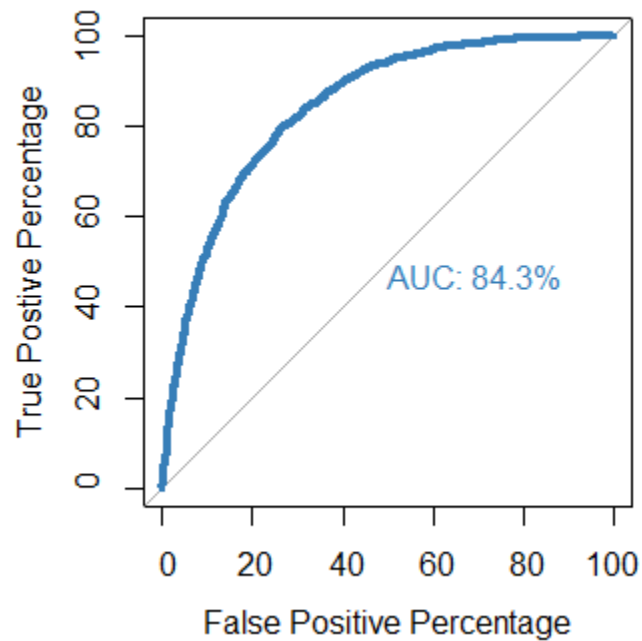


```r
# Lets add the other graph
plot.roc(tablechurn$Churn, logistic$fitted.values, percent=TRUE, col="#4daf4a
", lwd=4, print.auc=TRUE, add=TRUE, print.auc.y=40)
```

```
## Setting levels: control = No, case = Yes
## Setting direction: controls < cases
```

```r
legend("bottomright", legend=c("Simple", "Non Simple"), col=c("#377eb8", "#4d
af4a"), lwd=4) # Make it user friendly
```
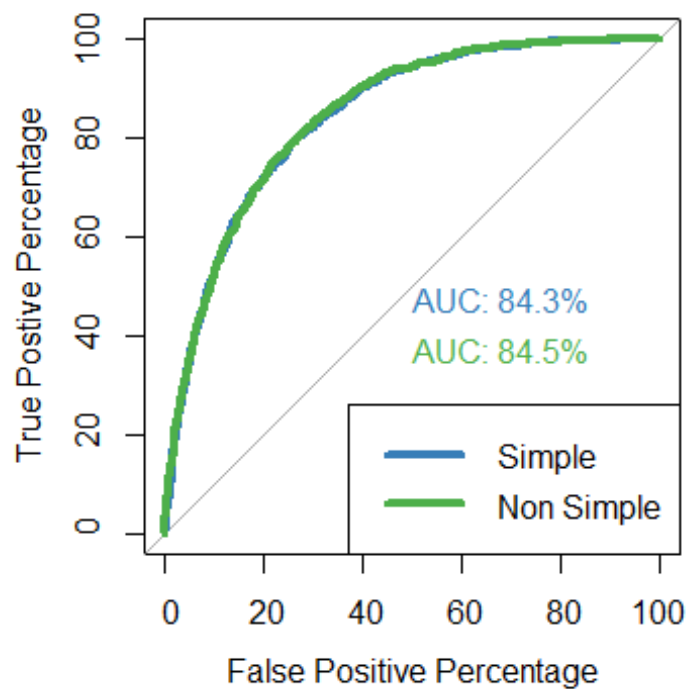
```
# reset the par area back to the default setting
par(pty='m')
```

```
##From the above results we see that we get AUC value as 84.5% with the second model(i.e. non simple model) which implies this model is good
##fit and the predictors used in this model can influence our dependent variable Churn.
```