Assignment 2 ML

getwd()

library(class) library(dplyr) library(tidyverse) library(ISLR) library(dummies) library(caret)

## R Markdown

Myfile <- read.csv("UniversalBank.csv")

#transform categorical predictors with more than two categories into dummy variables first

library(dummies)

## dummies-1.5.6 provided by Decision Patterns

library(dplyr)

##   
## Attaching package: 'dplyr'

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

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

library(class)  
Myfile$Education <-as.factor(Myfile$Education)  
#remove ID and ZIP   
df= dummy.data.frame (select(Myfile, -c(ZIP.Code,ID)))

## Warning in model.matrix.default(~x - 1, model.frame(~x - 1), contrasts = FALSE):  
## non-list contrasts argument ignored

df$Personal.Loan <-as.factor(df$Personal.Loan)  
df$CCAvg <-as.integer(df$CCAvg)  
df

## Age Experience Income Family CCAvg Education1 Education2 Education3  
## 1 25 1 49 4 1 1 0 0  
## 2 45 19 34 3 1 1 0 0  
## 3 39 15 11 1 1 1 0 0  
## 4 35 9 100 1 2 0 1 0  
## 5 35 8 45 4 1 0 1 0  
## 6 37 13 29 4 0 0 1 0  
## 7 53 27 72 2 1 0 1 0  
## 8 50 24 22 1 0 0 0 1  
## 9 35 10 81 3 0 0 1 0  
## 10 34 9 180 1 8 0 0 1  
## 11 65 39 105 4 2 0 0 1  
## 12 29 5 45 3 0 0 1 0  
## 13 48 23 114 2 3 0 0 1  
## 14 59 32 40 4 2 0 1 0  
## 15 67 41 112 1 2 1 0 0  
## 16 60 30 22 1 1 0 0 1  
## 17 38 14 130 4 4 0 0 1  
## 18 42 18 81 4 2 1 0 0  
## 19 46 21 193 2 8 0 0 1  
## 20 55 28 21 1 0 0 1 0  
## 21 56 31 25 4 0 0 1 0  
## 22 57 27 63 3 2 0 0 1  
## 23 29 5 62 1 1 1 0 0  
## 24 44 18 43 2 0 1 0 0  
## 25 36 11 152 2 3 1 0 0  
## 26 43 19 29 3 0 1 0 0  
## 27 40 16 83 4 0 0 0 1  
## 28 46 20 158 1 2 1 0 0  
## 29 56 30 48 1 2 0 0 1  
## 30 38 13 119 1 3 0 1 0  
## 31 59 35 35 1 1 0 0 1  
## 32 40 16 29 1 2 0 1 0  
## 33 53 28 41 2 0 0 0 1  
## 34 30 6 18 3 0 0 0 1  
## 35 31 5 50 4 1 0 0 1  
## 36 48 24 81 3 0 1 0 0  
## 37 59 35 121 1 2 1 0 0  
## 38 51 25 71 1 1 0 0 1  
## 39 42 18 141 3 5 0 0 1  
## 40 38 13 80 4 0 0 0 1  
## 41 57 32 84 3 1 0 0 1  
## 42 34 9 60 3 2 1 0 0  
## 43 32 7 132 4 1 0 1 0  
## 44 39 15 45 1 0 1 0 0  
## 45 46 20 104 1 5 1 0 0  
## 46 57 31 52 4 2 1 0 0  
## 47 39 14 43 3 0 0 1 0  
## 48 37 12 194 4 0 0 0 1  
## 49 56 26 81 2 4 0 0 1  
## 50 40 16 49 1 1 1 0 0  
## 51 32 8 8 4 0 0 1 0  
## 52 61 37 131 1 2 1 0 0  
## 53 30 6 72 1 0 1 0 0  
## 54 50 26 190 3 2 0 0 1  
## 55 29 5 44 1 0 0 0 1  
## 56 41 17 139 2 8 1 0 0  
## 57 55 30 29 3 0 0 1 0  
## 58 56 31 131 2 1 0 0 1  
## 59 28 2 93 2 0 1 0 0  
## 60 31 5 188 2 4 1 0 0  
## 61 49 24 39 3 1 0 1 0  
## 62 47 21 125 1 5 1 0 0  
## 63 42 18 22 1 1 1 0 0  
## 64 42 17 32 4 0 0 1 0  
## 65 47 23 105 2 3 1 0 0  
## 66 59 35 131 1 3 1 0 0  
## 67 62 36 105 2 2 1 0 0  
## 68 53 23 45 4 2 0 0 1  
## 69 47 21 60 3 2 1 0 0  
## 70 53 29 20 4 0 1 0 0  
## 71 42 18 115 1 3 1 0 0  
## 72 53 29 69 4 1 0 1 0  
## 73 44 20 130 1 5 1 0 0  
## 74 41 16 85 1 4 0 0 1  
## 75 28 3 135 2 3 1 0 0  
## 76 31 7 135 4 3 0 1 0  
## 77 58 32 12 3 0 0 0 1  
## 78 46 20 29 3 0 0 1 0  
## 79 54 30 133 2 2 0 0 1  
## 80 50 26 19 2 0 1 0 0  
## 81 60 36 41 4 1 1 0 0  
## 82 47 22 40 3 2 0 1 0  
## 83 41 16 82 1 4 0 0 1  
## 84 33 9 50 1 2 0 1 0  
## 85 46 22 18 1 0 0 0 1  
## 86 27 2 109 4 1 0 0 1  
## 87 40 16 42 4 2 0 1 0  
## 88 48 22 78 3 1 1 0 0  
## 89 65 41 51 2 1 1 0 0  
## 90 25 -1 113 4 2 0 0 1  
## 91 55 30 118 4 5 0 1 0  
## 92 35 10 29 4 1 0 0 1  
## 93 43 19 34 3 0 0 1 0  
## 94 60 34 64 2 1 0 0 1  
## 95 65 39 121 1 2 1 0 0  
## 96 38 12 48 4 0 0 0 1  
## 97 41 15 80 1 5 1 0 0  
## 98 54 28 161 1 2 1 0 0  
## 99 49 23 94 1 0 1 0 0  
## 100 66 41 15 3 0 0 0 1  
## 101 48 23 74 1 1 1 0 0  
## 102 61 36 30 3 1 0 1 0  
## 103 53 23 44 3 1 0 0 1  
## 104 43 18 22 2 0 0 1 0  
## 105 56 32 38 4 1 1 0 0  
## 106 24 0 35 3 0 0 1 0  
## 107 43 17 69 4 2 1 0 0  
## 108 42 18 43 1 0 1 0 0  
## 109 33 7 32 1 0 0 0 1  
## 110 43 17 49 1 2 1 0 0  
## 111 41 14 9 3 1 0 1 0  
## 112 62 38 45 4 1 0 1 0  
## 113 40 15 82 3 1 1 0 0  
## 114 58 34 92 2 2 1 0 0  
## 115 39 14 39 3 0 0 0 1  
## 116 65 40 81 3 1 0 1 0  
## 117 54 29 35 1 1 0 1 0  
## 118 58 33 61 2 2 0 0 1  
## 119 41 16 73 3 3 1 0 0  
## 120 32 7 112 1 4 1 0 0  
## 121 54 29 12 2 0 0 0 1  
## 122 52 26 38 3 0 0 0 1  
## 123 58 32 73 2 0 0 1 0  
## 124 37 13 84 1 3 0 1 0  
## 125 39 15 78 4 2 1 0 0  
## 126 60 35 80 3 0 1 0 0  
## 127 31 5 115 2 1 1 0 0  
## 128 34 8 82 1 2 0 1 0  
## 129 38 14 74 2 0 1 0 0  
## 130 41 16 70 3 0 0 0 1  
## 131 28 4 81 3 1 1 0 0  
## 132 58 34 149 4 7 0 1 0  
## 133 31 1 51 2 1 0 0 1  
## 134 30 4 39 3 1 0 1 0  
## 135 53 29 98 3 1 0 1 0  
## 136 58 33 45 4 2 1 0 0  
## 137 59 32 49 4 2 0 1 0  
## 138 49 25 128 2 0 1 0 0  
## 139 59 34 42 3 1 1 0 0  
## 140 59 35 18 1 1 0 0 1  
## 141 51 25 31 2 0 0 0 1  
## 142 35 11 58 3 2 1 0 0  
## 143 33 9 48 1 2 0 0 1  
## 144 25 1 54 4 1 1 0 0  
## 145 49 23 70 2 1 0 1 0  
## 146 59 35 124 1 7 1 0 0  
## 147 46 19 84 1 2 0 1 0  
## 148 50 25 83 4 3 0 0 1  
## 149 52 28 163 2 0 1 0 0  
## 150 48 22 42 3 2 0 1 0  
## 151 46 22 118 2 7 1 0 0  
## 152 26 0 132 3 6 0 0 1  
## 153 57 32 24 1 1 1 0 0  
## 154 60 36 22 2 1 1 0 0  
## 155 54 29 58 4 1 0 0 1  
## 156 24 0 60 4 1 1 0 0  
## 157 26 0 15 4 0 1 0 0  
## 158 41 17 83 4 2 1 0 0  
## 159 32 6 79 2 1 0 0 1  
## 160 61 35 41 4 1 0 1 0  
## 161 29 0 134 4 6 0 0 1  
## 162 61 35 80 2 2 1 0 0  
## 163 38 12 52 1 2 1 0 0  
## 164 28 4 70 4 2 1 0 0  
## 165 53 27 92 2 1 1 0 0  
## 166 27 1 43 1 1 1 0 0  
## 167 25 1 21 3 1 0 1 0  
## 168 33 9 23 3 0 0 0 1  
## 169 50 26 13 4 1 1 0 0  
## 170 27 1 112 4 2 0 0 1  
## 171 27 1 138 2 2 1 0 0  
## 172 52 28 11 3 0 1 0 0  
## 173 38 13 171 2 7 1 0 0  
## 174 58 34 42 4 1 1 0 0  
## 175 42 17 168 2 7 0 1 0  
## 176 45 20 85 4 1 0 1 0  
## 177 52 25 44 3 1 0 1 0  
## 178 29 3 65 4 1 0 1 0  
## 179 53 29 24 4 0 1 0 0  
## 180 62 37 11 1 0 1 0 0  
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## 182 36 12 10 4 0 0 1 0  
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## 189 64 40 169 2 2 1 0 0  
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## 191 60 36 93 1 4 1 0 0  
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## 193 50 23 85 1 2 0 1 0  
## 194 48 24 21 4 0 1 0 0  
## 195 53 29 144 2 6 1 0 0  
## 196 34 10 13 4 1 1 0 0  
## 197 48 24 165 1 5 1 0 0  
## 198 55 31 9 4 0 1 0 0  
## 199 27 3 59 4 0 1 0 0  
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## 201 32 6 29 1 1 0 0 1  
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## 204 58 34 65 4 2 1 0 0  
## 205 56 31 61 2 1 0 1 0  
## 206 38 12 91 4 1 0 1 0  
## 207 49 25 31 1 1 1 0 0  
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## 210 64 39 172 4 3 1 0 0  
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## 236 38 8 71 4 1 0 0 1  
## 237 43 18 89 3 0 0 0 1  
## 238 62 38 83 1 1 0 0 1  
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## 242 48 22 71 1 1 0 0 1  
## 243 41 16 75 1 3 0 0 1  
## 244 65 39 170 3 7 0 0 1  
## 245 41 17 78 4 0 1 0 0  
## 246 35 11 25 2 1 0 1 0  
## 247 38 14 60 2 0 0 0 1  
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## 251 30 6 29 3 1 0 1 0  
## 252 54 28 170 2 6 0 1 0  
## 253 65 40 53 3 2 1 0 0  
## 254 47 21 138 1 0 1 0 0  
## 255 65 41 134 3 3 0 0 1  
## 256 66 40 42 2 0 0 0 1  
## 257 26 0 99 4 2 0 0 1  
## 258 66 41 18 3 0 1 0 0  
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## 280 39 14 155 2 3 1 0 0  
## 281 33 8 64 4 2 0 0 1  
## 282 57 31 65 4 2 0 0 1  
## 283 34 9 71 4 0 0 0 1  
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## 315 63 37 45 2 0 0 0 1  
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## 320 65 39 20 3 0 0 1 0  
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## 322 44 20 101 3 4 0 1 0  
## 323 63 39 101 1 3 1 0 0  
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## 325 56 30 158 4 6 1 0 0  
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## 333 59 33 42 1 0 0 1 0  
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## 335 48 23 45 1 1 0 1 0  
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## 337 36 12 65 3 2 0 1 0  
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## 573 39 15 128 1 3 1 0 0  
## 574 55 28 50 3 1 0 1 0  
## 575 29 5 80 2 2 0 1 0  
## 576 54 30 93 1 2 0 1 0  
## 577 25 -1 48 3 0 0 0 1  
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## 580 57 33 88 1 2 0 1 0  
## 581 52 22 22 4 0 0 0 1  
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## 583 44 18 72 1 0 0 0 1  
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## 585 40 16 114 1 3 1 0 0  
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## 587 39 14 101 2 0 1 0 0  
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## 4469 0 0 0 0 1 1  
## 4470 0 0 1 1 1 1  
## 4471 0 1 0 0 1 0  
## 4472 302 0 0 0 0 0  
## 4473 0 0 0 0 1 0  
## 4474 124 0 0 0 1 1  
## 4475 0 0 0 0 0 0  
## 4476 91 0 0 0 1 0  
## 4477 0 0 0 0 0 0  
## 4478 0 0 0 1 1 1  
## 4479 0 0 0 0 0 0  
## 4480 0 0 0 0 1 0  
## 4481 0 1 0 0 1 0  
## 4482 0 0 0 0 1 0  
## 4483 0 0 0 0 0 0  
## 4484 256 0 0 0 1 1  
## 4485 0 0 0 0 1 1  
## 4486 0 0 0 0 0 0  
## 4487 0 0 0 0 0 1  
## 4488 0 0 0 0 1 1  
## 4489 0 0 0 0 0 0  
## 4490 0 0 0 0 1 0  
## 4491 0 0 1 0 1 0  
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## 4493 0 0 0 0 1 1  
## 4494 0 0 0 0 1 1  
## 4495 0 1 0 0 1 0  
## 4496 0 0 0 0 0 0  
## 4497 0 0 0 0 0 0  
## 4498 0 0 1 0 1 0  
## 4499 328 0 0 0 0 0  
## 4500 0 0 0 0 1 1  
## 4501 0 0 0 0 0 1  
## 4502 178 0 1 1 1 1  
## 4503 0 0 0 0 0 0  
## 4504 108 0 0 0 1 0  
## 4505 147 0 0 0 0 0  
## 4506 0 0 1 0 1 0  
## 4507 153 0 0 0 1 1  
## 4508 0 0 0 0 0 1  
## 4509 0 0 0 0 1 1  
## 4510 0 0 0 0 1 0  
## 4511 0 0 0 0 0 0  
## 4512 0 0 0 0 1 1  
## 4513 0 0 0 0 1 1  
## 4514 0 0 0 0 1 0  
## 4515 0 0 0 0 1 0  
## 4516 0 0 0 0 0 0  
## 4517 0 0 0 0 1 0  
## 4518 0 0 0 0 1 0  
## 4519 0 0 0 0 1 0  
## 4520 77 0 0 0 0 1  
## 4521 0 0 0 0 0 0  
## 4522 0 0 0 0 0 0  
## 4523 0 0 0 0 0 0  
## 4524 0 0 0 0 1 0  
## 4525 0 0 0 0 1 1  
## 4526 0 0 0 0 1 1  
## 4527 129 0 1 0 1 0  
## 4528 0 0 0 0 0 1  
## 4529 0 0 0 0 0 0  
## 4530 0 0 0 0 0 0  
## 4531 92 0 0 0 1 0  
## 4532 131 0 0 0 0 1  
## 4533 0 1 0 0 1 0  
## 4534 0 0 0 0 1 0  
## 4535 0 0 0 0 1 0  
## 4536 0 0 0 0 0 0  
## 4537 0 0 0 0 0 0  
## 4538 0 0 0 0 1 1  
## 4539 0 0 0 0 0 0  
## 4540 0 0 0 0 1 0  
## 4541 0 0 0 0 1 0  
## 4542 405 0 0 0 1 0  
## 4543 0 0 1 1 1 1  
## 4544 0 0 0 0 1 0  
## 4545 0 0 0 0 1 0  
## 4546 0 0 0 0 1 0  
## 4547 0 0 1 0 1 0  
## 4548 0 0 0 0 1 0  
## 4549 241 0 0 0 0 0  
## 4550 0 0 0 0 1 0  
## 4551 0 0 0 0 1 0  
## 4552 0 0 0 0 1 0  
## 4553 0 0 0 0 0 0  
## 4554 192 0 0 0 1 0  
## 4555 0 0 1 0 1 0  
## 4556 179 0 0 0 0 0  
## 4557 0 0 1 0 1 0  
## 4558 0 0 0 0 1 0  
## 4559 0 0 0 0 1 1  
## 4560 270 0 0 0 1 0  
## 4561 0 0 0 1 1 1  
## 4562 0 0 0 0 0 0  
## 4563 0 0 0 0 0 1  
## 4564 0 0 1 0 1 0  
## 4565 148 0 0 0 0 0  
## 4566 76 1 0 0 0 1  
## 4567 0 0 0 0 1 0  
## 4568 97 0 1 0 1 0  
## 4569 0 0 1 0 0 0  
## 4570 0 0 1 0 0 0  
## 4571 249 0 0 0 1 0  
## 4572 0 0 0 0 0 0  
## 4573 0 0 0 0 1 0  
## 4574 264 0 0 1 1 1  
## 4575 0 0 0 0 0 1  
## 4576 0 1 0 0 0 0  
## 4577 0 0 0 0 1 1  
## 4578 0 0 0 0 1 1  
## 4579 0 0 0 0 1 1  
## 4580 81 0 0 0 1 0  
## 4581 0 0 0 0 1 0  
## 4582 0 0 0 0 0 1  
## 4583 0 0 0 0 1 0  
## 4584 0 1 0 0 1 0  
## 4585 0 0 0 0 0 0  
## 4586 571 1 0 1 1 1  
## 4587 0 0 0 0 1 1  
## 4588 0 0 0 0 0 0  
## 4589 0 0 0 0 0 1  
## 4590 0 0 0 0 1 0  
## 4591 0 1 0 0 0 0  
## 4592 0 0 0 0 1 0  
## 4593 154 0 0 0 0 0  
## 4594 0 1 0 0 0 1  
## 4595 78 0 0 0 1 0  
## 4596 0 0 0 0 1 0  
## 4597 0 0 0 0 0 0  
## 4598 0 0 0 0 0 0  
## 4599 0 0 0 0 1 0  
## 4600 0 0 0 0 1 0  
## 4601 0 0 0 0 0 0  
## 4602 0 0 0 0 1 0  
## 4603 226 0 0 0 1 1  
## 4604 0 0 0 0 1 0  
## 4605 0 1 0 0 0 1  
## 4606 0 0 0 0 0 0  
## 4607 0 0 0 0 1 0  
## 4608 0 0 0 0 1 1  
## 4609 0 0 0 0 1 0  
## 4610 143 0 0 0 0 0  
## 4611 104 0 0 0 1 0  
## 4612 0 0 0 0 1 0  
## 4613 0 0 0 0 1 0  
## 4614 218 0 0 0 1 1  
## 4615 102 0 0 0 0 0  
## 4616 0 0 0 0 1 0  
## 4617 0 0 0 0 1 1  
## 4618 0 0 0 0 0 1  
## 4619 126 0 0 0 1 0  
## 4620 96 0 0 0 0 0  
## 4621 0 0 0 0 1 0  
## 4622 0 0 1 1 1 1  
## 4623 0 0 0 0 1 0  
## 4624 0 0 0 0 0 0  
## 4625 0 0 0 0 0 0  
## 4626 81 1 0 0 0 0  
## 4627 169 0 0 0 1 0  
## 4628 307 1 0 0 1 0  
## 4629 0 1 0 0 0 0  
## 4630 0 0 0 1 1 1  
## 4631 0 0 0 0 0 0  
## 4632 120 1 0 1 1 1  
## 4633 0 0 0 0 0 1  
## 4634 0 0 0 0 1 0  
## 4635 0 0 0 0 1 0  
## 4636 293 0 1 1 1 1  
## 4637 0 0 0 0 1 0  
## 4638 0 0 0 0 1 1  
## 4639 0 0 0 0 1 0  
## 4640 0 0 0 0 1 1  
## 4641 0 0 0 0 1 0  
## 4642 124 0 0 0 1 1  
## 4643 0 1 0 0 1 0  
## 4644 0 0 0 0 1 0  
## 4645 0 0 0 0 1 0  
## 4646 84 0 0 0 0 0  
## 4647 0 0 0 0 0 0  
## 4648 0 0 0 0 1 0  
## 4649 0 0 0 0 1 0  
## 4650 0 0 0 0 1 0  
## 4651 0 0 0 0 1 0  
## 4652 0 0 0 0 0 0  
## 4653 0 1 0 0 1 0  
## 4654 0 0 0 0 1 1  
## 4655 0 0 0 0 0 0  
## 4656 581 1 0 0 0 0  
## 4657 0 0 1 0 0 0  
## 4658 0 0 0 0 0 1  
## 4659 0 0 0 0 1 1  
## 4660 0 0 0 0 0 0  
## 4661 0 0 0 0 1 0  
## 4662 0 0 1 0 1 0  
## 4663 0 0 0 0 1 0  
## 4664 200 0 0 0 1 0  
## 4665 0 0 0 0 0 0  
## 4666 0 0 0 0 1 0  
## 4667 124 0 0 0 0 0  
## 4668 0 0 0 0 1 0  
## 4669 221 0 0 0 1 0  
## 4670 0 0 0 0 1 1  
## 4671 0 0 0 0 1 0  
## 4672 0 0 0 1 1 1  
## 4673 550 0 0 0 1 0  
## 4674 88 0 0 0 1 1  
## 4675 328 0 1 1 1 1  
## 4676 137 0 0 0 1 1  
## 4677 0 0 1 0 1 0  
## 4678 0 0 0 0 0 0  
## 4679 283 0 0 0 1 0  
## 4680 0 0 0 0 0 0  
## 4681 94 0 0 0 0 0  
## 4682 0 0 0 0 0 1  
## 4683 0 0 0 0 1 0  
## 4684 0 0 0 0 0 0  
## 4685 0 0 0 0 1 0  
## 4686 0 0 0 0 1 0  
## 4687 0 0 0 0 0 0  
## 4688 0 0 0 0 1 1  
## 4689 0 0 0 0 1 1  
## 4690 164 0 0 0 1 1  
## 4691 0 0 0 0 1 0  
## 4692 0 0 0 0 1 0  
## 4693 0 0 0 0 0 1  
## 4694 0 0 0 0 0 0  
## 4695 0 0 0 0 0 0  
## 4696 0 0 0 0 0 1  
## 4697 0 0 0 0 0 0  
## 4698 167 0 0 0 0 0  
## 4699 400 1 0 0 0 0  
## 4700 153 0 0 0 0 1  
## 4701 0 0 0 0 1 0  
## 4702 0 0 0 0 0 0  
## 4703 0 1 1 0 0 0  
## 4704 0 0 0 0 1 0  
## 4705 0 0 0 0 1 0  
## 4706 0 1 0 1 1 1  
## 4707 0 0 0 0 0 0  
## 4708 0 0 1 0 0 1  
## 4709 0 0 0 0 1 0  
## 4710 119 0 0 0 0 1  
## 4711 0 0 0 0 0 1  
## 4712 0 0 0 0 0 0  
## 4713 0 0 0 0 0 1  
## 4714 0 0 0 0 1 0  
## 4715 307 0 1 1 1 1  
## 4716 150 0 0 0 1 0  
## 4717 75 0 1 0 1 0  
## 4718 0 0 0 0 1 0  
## 4719 0 0 1 0 1 0  
## 4720 0 1 0 1 0 1  
## 4721 0 0 1 0 0 0  
## 4722 0 0 1 0 1 0  
## 4723 0 0 0 0 0 0  
## 4724 0 0 0 0 1 1  
## 4725 0 0 0 0 0 0  
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## 4727 0 0 1 0 1 0  
## 4728 0 0 0 0 1 1  
## 4729 0 0 0 0 1 0  
## 4730 0 0 0 0 0 0  
## 4731 159 0 0 0 0 1  
## 4732 0 0 0 0 1 1  
## 4733 247 0 0 0 0 0  
## 4734 0 0 0 0 1 0  
## 4735 147 0 0 0 1 1  
## 4736 323 0 0 0 1 0  
## 4737 0 0 0 0 0 0  
## 4738 0 0 0 0 0 0  
## 4739 153 0 0 0 1 0  
## 4740 0 0 0 0 1 1  
## 4741 0 0 0 0 1 0  
## 4742 0 0 0 0 1 0  
## 4743 90 0 0 0 1 1  
## 4744 0 0 0 0 1 0  
## 4745 0 0 0 0 1 0  
## 4746 0 0 0 0 1 1  
## 4747 0 0 0 0 1 0  
## 4748 0 0 0 0 1 0  
## 4749 144 0 0 0 1 0  
## 4750 0 0 0 0 1 0  
## 4751 0 0 0 0 0 1  
## 4752 0 0 0 0 0 1  
## 4753 207 0 0 0 1 0  
## 4754 0 0 1 1 1 1  
## 4755 161 0 0 0 0 0  
## 4756 0 0 0 0 1 0  
## 4757 236 0 1 0 0 0  
## 4758 0 0 0 0 0 0  
## 4759 116 0 0 0 0 0  
## 4760 0 0 0 0 1 0  
## 4761 0 0 0 0 0 1  
## 4762 0 0 0 0 1 1  
## 4763 232 0 0 0 1 0  
## 4764 0 1 0 0 1 0  
## 4765 0 0 0 0 1 1  
## 4766 263 0 0 0 0 0  
## 4767 0 0 0 0 1 0  
## 4768 101 0 1 0 0 0  
## 4769 0 0 0 0 1 0  
## 4770 116 0 0 0 0 0  
## 4771 0 0 0 0 0 1  
## 4772 0 0 0 0 1 0  
## 4773 0 0 0 0 1 0  
## 4774 0 0 0 0 1 0  
## 4775 0 0 0 0 1 1  
## 4776 171 0 0 0 0 0  
## 4777 156 0 0 0 1 0  
## 4778 78 0 0 0 1 0  
## 4779 0 0 0 0 1 1  
## 4780 0 0 0 0 1 0  
## 4781 0 0 0 0 1 0  
## 4782 0 0 1 0 1 0  
## 4783 0 0 0 0 0 1  
## 4784 0 0 0 0 0 0  
## 4785 0 0 0 0 0 0  
## 4786 0 0 1 0 1 0  
## 4787 0 0 0 0 1 1  
## 4788 121 0 0 0 1 0  
## 4789 153 0 0 0 0 0  
## 4790 0 0 0 0 1 0  
## 4791 150 1 0 0 1 0  
## 4792 0 0 0 0 0 1  
## 4793 130 0 0 0 1 0  
## 4794 155 0 0 0 1 0  
## 4795 146 0 0 0 0 0  
## 4796 101 0 0 0 1 0  
## 4797 0 0 1 0 0 0  
## 4798 0 0 0 0 0 0  
## 4799 0 0 0 0 0 1  
## 4800 142 0 0 0 0 1  
## 4801 135 0 0 0 0 0  
## 4802 121 0 0 0 1 0  
## 4803 0 0 0 0 1 0  
## 4804 0 0 0 0 1 0  
## 4805 0 0 0 0 0 0  
## 4806 249 0 0 0 1 0  
## 4807 0 0 0 0 1 0  
## 4808 0 0 0 0 1 1  
## 4809 0 0 0 0 0 1  
## 4810 0 0 0 0 0 0  
## 4811 96 0 0 0 1 0  
## 4812 0 1 0 0 0 0  
## 4813 612 1 0 0 1 0  
## 4814 142 0 0 0 1 1  
## 4815 0 0 0 0 0 1  
## 4816 0 0 0 0 0 1  
## 4817 0 0 0 0 0 1  
## 4818 0 0 0 0 0 0  
## 4819 0 0 0 0 1 0  
## 4820 179 0 0 0 0 0  
## 4821 0 0 1 1 1 1  
## 4822 0 0 0 0 1 1  
## 4823 0 0 0 0 1 0  
## 4824 0 1 1 1 1 1  
## 4825 0 0 0 0 1 0  
## 4826 0 0 0 0 1 0  
## 4827 225 0 0 0 0 0  
## 4828 230 0 0 0 1 0  
## 4829 0 0 0 0 1 0  
## 4830 80 0 0 0 1 1  
## 4831 217 0 0 0 1 0  
## 4832 144 0 0 0 0 1  
## 4833 0 0 0 0 1 1  
## 4834 0 0 0 0 0 0  
## 4835 217 0 0 0 0 0  
## 4836 113 0 0 0 1 0  
## 4837 218 0 0 0 0 1  
## 4838 0 0 0 0 0 0  
## 4839 0 0 0 0 0 1  
## 4840 0 0 0 0 1 0  
## 4841 0 0 0 0 1 0  
## 4842 135 0 0 0 1 0  
## 4843 590 1 0 0 0 0  
## 4844 0 0 0 0 1 0  
## 4845 313 0 0 0 0 0  
## 4846 0 0 0 0 0 0  
## 4847 0 1 0 0 1 0  
## 4848 260 0 0 0 1 0  
## 4849 119 0 0 0 1 0  
## 4850 0 0 0 0 1 1  
## 4851 0 0 1 0 1 0  
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## 4859 0 0 0 0 1 0  
## 4860 541 1 0 0 0 0  
## 4861 128 0 0 0 1 0  
## 4862 121 0 0 0 1 0  
## 4863 0 0 0 0 0 0  
## 4864 142 0 0 0 1 0  
## 4865 0 0 0 0 1 0  
## 4866 342 1 0 0 0 1  
## 4867 0 0 0 0 1 1  
## 4868 0 0 0 0 1 0  
## 4869 118 0 0 0 0 1  
## 4870 0 0 0 0 0 1  
## 4871 0 0 0 0 1 1  
## 4872 187 0 0 0 0 0  
## 4873 0 0 0 0 1 1  
## 4874 0 0 0 0 1 0  
## 4875 0 0 0 0 0 0  
## 4876 0 0 0 0 1 0  
## 4877 0 1 0 0 0 0  
## 4878 0 0 0 0 0 0  
## 4879 0 0 0 0 1 0  
## 4880 98 0 0 0 0 0  
## 4881 0 0 0 0 1 0  
## 4882 140 0 0 0 1 0  
## 4883 0 0 1 1 1 1  
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## 4885 0 0 0 0 1 1  
## 4886 0 0 0 0 1 0  
## 4887 0 0 0 0 0 0  
## 4888 0 0 0 1 1 1  
## 4889 158 0 0 0 1 0  
## 4890 0 0 0 0 1 0  
## 4891 0 0 0 0 1 0  
## 4892 0 0 1 1 1 1  
## 4893 120 0 1 0 1 0  
## 4894 0 0 1 1 1 1  
## 4895 0 0 1 0 0 0  
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## 4899 96 0 0 0 1 0  
## 4900 299 0 0 0 1 0  
## 4901 0 0 0 0 1 0  
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## 4903 0 0 0 0 1 0  
## 4904 119 0 0 0 1 1  
## 4905 243 0 0 0 1 1  
## 4906 89 0 0 0 0 0  
## 4907 128 0 0 0 0 0  
## 4908 0 0 0 0 0 0  
## 4909 0 0 0 0 1 0  
## 4910 0 0 0 0 0 1  
## 4911 0 0 0 0 1 0  
## 4912 0 0 0 0 0 0  
## 4913 94 0 1 0 1 0  
## 4914 0 0 0 0 1 0  
## 4915 0 0 0 0 0 1  
## 4916 0 0 0 0 0 1  
## 4917 0 0 0 0 1 0  
## 4918 82 0 1 0 1 0  
## 4919 110 0 0 0 0 1  
## 4920 0 0 0 0 1 1  
## 4921 91 0 0 0 1 1  
## 4922 0 0 0 0 1 1  
## 4923 0 0 0 0 1 1  
## 4924 0 0 0 0 1 1  
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## 4926 0 0 0 0 1 0  
## 4927 0 0 0 0 0 1  
## 4928 0 1 0 1 1 1  
## 4929 98 0 0 0 1 0  
## 4930 0 0 0 0 1 0  
## 4931 109 0 0 0 1 0  
## 4932 0 0 0 0 1 0  
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## 4937 0 0 0 0 0 0  
## 4938 0 0 0 1 1 1  
## 4939 0 0 0 0 1 0  
## 4940 116 0 0 0 1 1  
## 4941 0 0 0 0 1 0  
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## 4943 308 0 0 1 1 1  
## 4944 0 0 0 0 1 0  
## 4945 0 0 0 0 1 0  
## 4946 106 0 0 0 0 1  
## 4947 0 0 0 0 1 0  
## 4948 108 0 0 0 1 1  
## 4949 0 0 0 0 0 1  
## 4950 249 0 0 0 0 1  
## 4951 0 0 0 0 0 1  
## 4952 0 0 0 0 1 1  
## 4953 0 0 0 0 1 0  
## 4954 75 0 0 0 1 0  
## 4955 0 0 0 0 1 1  
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## 4957 0 0 1 0 0 1  
## 4958 0 0 0 0 0 1  
## 4959 0 0 0 0 0 0  
## 4960 197 0 1 0 1 0  
## 4961 0 0 0 0 1 0  
## 4962 0 0 0 0 1 1  
## 4963 0 1 0 1 1 1  
## 4964 306 0 0 0 0 0  
## 4965 0 0 0 0 1 0  
## 4966 78 0 0 0 1 0  
## 4967 143 0 0 0 0 0  
## 4968 0 0 0 0 1 0  
## 4969 0 0 0 0 1 1  
## 4970 250 0 0 0 1 0  
## 4971 0 0 0 0 0 1  
## 4972 0 0 1 0 0 0  
## 4973 148 0 0 0 1 1  
## 4974 0 0 0 0 1 0  
## 4975 0 0 0 0 0 1  
## 4976 0 0 0 0 1 0  
## 4977 0 0 0 0 1 1  
## 4978 0 0 0 0 1 0  
## 4979 0 0 0 0 1 0  
## 4980 213 0 0 0 0 1  
## 4981 0 1 0 1 1 1  
## 4982 122 0 0 0 1 0  
## 4983 0 0 0 0 0 1  
## 4984 0 0 0 0 0 0  
## 4985 0 0 0 0 0 1  
## 4986 162 0 0 0 1 0  
## 4987 0 0 0 0 0 0  
## 4988 159 0 0 0 1 0  
## 4989 136 0 0 0 0 1  
## 4990 0 0 0 0 1 0  
## 4991 219 0 0 0 0 1  
## 4992 100 0 0 0 0 1  
## 4993 0 0 0 0 0 0  
## 4994 0 0 0 0 1 0  
## 4995 0 0 0 0 1 0  
## 4996 0 0 0 0 1 0  
## 4997 85 0 0 0 1 0  
## 4998 0 0 0 0 0 0  
## 4999 0 0 0 0 1 0  
## 5000 0 0 0 0 1 1

#remove ID & Zip Code #partion the data (60% training and validation 40%)

library(caret)

## Loading required package: ggplot2

## Loading required package: lattice

library(FNN)

##   
## Attaching package: 'FNN'

## The following objects are masked from 'package:class':  
##   
## knn, knn.cv

library(class)  
library(dplyr)  
library(ISLR)  
  
set.seed(1)  
train\_index = sample (row.names(df),0.6\*dim(df)[1])  
test.index <- setdiff(row.names(df),train\_index)  
  
train\_Data = df[train\_index,]  
Validation\_Data= df[test.index,]  
  
#Constraints  
Constraints =data.frame(Age =as.integer(40), Experience =as.integer(10), Income = as.integer(84), Family = as.integer(2), CCAvg =as.integer(2), Education1 =as.integer(0), Education2 =as.integer(1), Education3 = as.integer(0), Mortgage = as.integer(0), Securities.Account = as.integer(0), CD.Account = as.integer(0), Online = as.integer(1), CreditCard = as.integer(1))  
  
normal <- preProcess(train\_Data[,-c(10)], method=c("center","scale"))   
normal

## Created from 3000 samples and 13 variables  
##   
## Pre-processing:  
## - centered (13)  
## - ignored (0)  
## - scaled (13)

train\_Data <- predict(normal,train\_Data)  
Validation\_Data <- predict(normal,Validation\_Data)  
Constraints <- predict(normal,Constraints)  
  
K1 <-knn(train=train\_Data[,-c(10)],test=Constraints,cl=train\_Data[,10], k=1, prob = TRUE)  
knn.attributes <- attributes(K1)  
knn.attributes[3]

## $prob  
## [1] 1

#choice of k that balances overfitting and ignoring the predictor

bestk <- data.frame(k = seq(1,10,1), accuracy = rep(0,10))  
  
for(i in 1:10) {  
 K2 <- knn(train = train\_Data[,-10],test = Validation\_Data[,-10], cl = train\_Data[,10], k=i, prob=TRUE)  
 bestk[i, 2] <- confusionMatrix(K2, as.factor(Validation\_Data$Personal.Loan))$overall[1] # for loop to generate accuracy for k values from 1 to 5  
}  
bestk

## k accuracy  
## 1 1 0.9625  
## 2 2 0.9560  
## 3 3 0.9640  
## 4 4 0.9535  
## 5 5 0.9590  
## 6 6 0.9535  
## 7 7 0.9580  
## 8 8 0.9510  
## 9 9 0.9545  
## 10 10 0.9490

#3 Confusion matrix

library(caret)  
library(class)  
K2 <-knn(train=train\_Data[,-10],test=Validation\_Data[,-10],cl=train\_Data[,10], prob = TRUE)  
confusionMatrix(K2, as.factor(Validation\_Data$Personal.Loan))

## Confusion Matrix and Statistics  
##   
## Reference  
## Prediction 0 1  
## 0 1778 58  
## 1 17 147  
##   
## Accuracy : 0.9625   
## 95% CI : (0.9532, 0.9704)  
## No Information Rate : 0.8975   
## P-Value [Acc > NIR] : < 2.2e-16   
##   
## Kappa : 0.7764   
##   
## Mcnemar's Test P-Value : 3.86e-06   
##   
## Sensitivity : 0.9905   
## Specificity : 0.7171   
## Pos Pred Value : 0.9684   
## Neg Pred Value : 0.8963   
## Prevalence : 0.8975   
## Detection Rate : 0.8890   
## Detection Prevalence : 0.9180   
## Balanced Accuracy : 0.8538   
##   
## 'Positive' Class : 0   
##

`

#Consider the following customer: Age = 40, Experience = 10, Income = 84,Family = 2, CCAvg = 2, Education\_1 = 0, Education\_2 = 1, Education\_3 = 0, Mortgage = 0, Securities Account = 0, CD Account = 0, Online = 1 and Credit Card = 1. Classify the customer using the best k.

Customer.df =data.frame(Age =40, Experience = (10), Income = (84), Family = (2), CCAvg = (2), Education1 = (0), Education2 = (1), Education3 = (0), Mortgage = (0), Securities.Account = (0), CD.Account = (0), Online = (1), CreditCard = (1))  
K4 <- knn(train = train\_Data[,-10],test = Customer.df, cl = train\_Data[,10], k=3, prob=TRUE)  
K4

## [1] 1  
## attr(,"prob")  
## [1] 1  
## attr(,"nn.index")  
## [,1] [,2] [,3]  
## [1,] 2721 2146 939  
## attr(,"nn.dist")  
## [,1] [,2] [,3]  
## [1,] 90.51969 90.53808 90.56426  
## Levels: 1

#Repartion the data (50% training and validation 30% and 20%)

library(caret)  
set.seed(100)  
#partition 50% of training  
train\_index = sample (row.names(df),0.5\*dim(df))  
#partition 30% validations  
valid.index <- sample(setdiff(rownames(df),train\_index),0.3\*dim(df))  
test.index <- setdiff(row.names(df),train\_index)  
  
  
train\_Data = df[train\_index,]  
Validation\_Data= df[valid.index,]  
Test\_data=df[test.index,]  
   
normal <- preProcess(train\_Data[,-c(10)], method=c("center","scale"))   
normal

## Created from 2500 samples and 13 variables  
##   
## Pre-processing:  
## - centered (13)  
## - ignored (0)  
## - scaled (13)

train\_Data[,-c(10)] <- predict(normal,train\_Data[,-c(10)] )  
Validation\_Data[,-c(10)] <- predict(normal,Validation\_Data[,-c(10)])  
Test\_data[,-c(10)] <- predict(normal, Test\_data[,-c(10)])  
Constraints <- predict(normal,Constraints)  
  
  
  
K3T <-knn(train=train\_Data[,-c(10)],test=train\_Data[,-c(10)],cl=train\_Data[,10], k=5, prob = TRUE)  
K4V <-knn(train=train\_Data[,-c(10)],test= Validation\_Data[,-c(10)],cl=train\_Data[,10], k=5, prob = TRUE)  
K5TT <-knn(train=train\_Data[,-c(10)],test=Test\_data[,-c(10)],cl=train\_Data[,10], k=5, prob = TRUE)  
confusionMatrix(K3T,train\_Data[,10])

## Confusion Matrix and Statistics  
##   
## Reference  
## Prediction 0 1  
## 0 2270 78  
## 1 2 150  
##   
## Accuracy : 0.968   
## 95% CI : (0.9603, 0.9745)  
## No Information Rate : 0.9088   
## P-Value [Acc > NIR] : < 2.2e-16   
##   
## Kappa : 0.7729   
##   
## Mcnemar's Test P-Value : < 2.2e-16   
##   
## Sensitivity : 0.9991   
## Specificity : 0.6579   
## Pos Pred Value : 0.9668   
## Neg Pred Value : 0.9868   
## Prevalence : 0.9088   
## Detection Rate : 0.9080   
## Detection Prevalence : 0.9392   
## Balanced Accuracy : 0.8285   
##   
## 'Positive' Class : 0   
##

confusionMatrix(K4V,Validation\_Data[,10])

## Confusion Matrix and Statistics  
##   
## Reference  
## Prediction 0 1  
## 0 1332 68  
## 1 9 91  
##   
## Accuracy : 0.9487   
## 95% CI : (0.9363, 0.9593)  
## No Information Rate : 0.894   
## P-Value [Acc > NIR] : 3.144e-14   
##   
## Kappa : 0.6762   
##   
## Mcnemar's Test P-Value : 3.851e-11   
##   
## Sensitivity : 0.9933   
## Specificity : 0.5723   
## Pos Pred Value : 0.9514   
## Neg Pred Value : 0.9100   
## Prevalence : 0.8940   
## Detection Rate : 0.8880   
## Detection Prevalence : 0.9333   
## Balanced Accuracy : 0.7828   
##   
## 'Positive' Class : 0   
##

confusionMatrix(K5TT,Test\_data[,10])

## Confusion Matrix and Statistics  
##   
## Reference  
## Prediction 0 1  
## 0 2235 106  
## 1 13 146  
##   
## Accuracy : 0.9524   
## 95% CI : (0.9433, 0.9604)  
## No Information Rate : 0.8992   
## P-Value [Acc > NIR] : < 2.2e-16   
##   
## Kappa : 0.686   
##   
## Mcnemar's Test P-Value : < 2.2e-16   
##   
## Sensitivity : 0.9942   
## Specificity : 0.5794   
## Pos Pred Value : 0.9547   
## Neg Pred Value : 0.9182   
## Prevalence : 0.8992   
## Detection Rate : 0.8940   
## Detection Prevalence : 0.9364   
## Balanced Accuracy : 0.7868   
##   
## 'Positive' Class : 0   
##