Aufgabe4

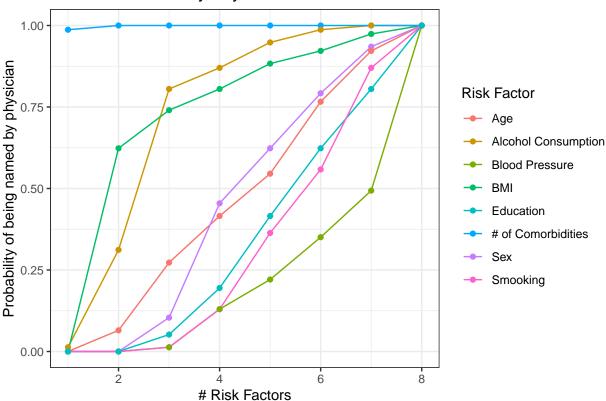
Max Melchior Lang

8/4/2021

Aufgabe 4

```
umfragen <- readRDS("umfragen.Rds")</pre>
umfragen <- umfragen %>%
  add_column("n_factors"= 1:8, .before=1) %>%
  pivot_longer(!n_factors, names_to = "risk_factor",
               values_to = "probability")
legend_labels <- c("Age", "Alcohol Consumption", "Blood Pressure", "BMI",</pre>
                   "Education", "# of Comorbidities", "Sex", "Smooking")
ggplot(umfragen, aes(x= n_factors, y= probability, col= risk_factor))+
  geom_line()+
  geom_point()+
  ggtitle("Risk Assesement by Physicians for a heart-attack")+
  xlab("# Risk Factors")+
  ylab("Probability of being named by physician")+
  scale_color_discrete(name= c("Risk Factor"),
                       labels= legend_labels)+
  theme_bw()
```

Risk Assesement by Physicians for a heart-attack



Session Info

```
sessionInfo()
```

```
## R version 4.0.2 (2020-06-22)
## Platform: x86_64-apple-darwin17.0 (64-bit)
## Running under: macOS 10.16
##
## Matrix products: default
         /Library/Frameworks/R.framework/Versions/4.0/Resources/lib/libRblas.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/4.0/Resources/lib/libRlapack.dylib
##
## locale:
## [1] de_DE.UTF-8/de_DE.UTF-8/de_DE.UTF-8/de_DE.UTF-8
## attached base packages:
## [1] stats
                graphics grDevices utils
                                             datasets methods
                                                                 base
##
## other attached packages:
## [1] forcats_0.5.1
                       stringr_1.4.0
                                       dplyr_1.0.7
                                                      purrr_0.3.4
##
  [5] readr_1.4.0
                       tidyr_1.1.3
                                       tibble_3.1.1
                                                      ggplot2_3.3.3
  [9] tidyverse_1.3.1 pammtools_0.5.7
##
## loaded via a namespace (and not attached):
## [1] Rcpp_1.0.6
                           lubridate_1.7.10
                                              mvtnorm_1.1-1
  [4] lattice_0.20-44
                           assertthat_0.2.1 digest_0.6.27
```

##	[7]	foreach_1.5.1	utf8_1.2.1	R6_2.5.0
##	[10]	cellranger_1.1.0	backports_1.2.1	reprex_2.0.0
##	[13]	evaluate_0.14	highr_0.9	httr_1.4.2
##	[16]	pillar_1.6.0	rlang_0.4.11	lazyeval_0.2.2
##	[19]	readxl_1.3.1	rstudioapi_0.13	Matrix_1.3-3
##	[22]	checkmate_2.0.0	rmarkdown_2.8	labeling_0.4.2
##	[25]	splines_4.0.2	munsell_0.5.0	broom_0.7.6
##	[28]	compiler_4.0.2	numDeriv_2016.8-1.1	modelr_0.1.8
##	[31]	xfun_0.22	pkgconfig_2.0.3	mgcv_1.8-35
##	[34]	htmltools_0.5.1.1	tidyselect_1.1.1	prodlim_2019.11.13
##	[37]	codetools_0.2-18	fansi_0.4.2	withr_2.4.2
##	[40]	crayon_1.4.1	dbplyr_2.1.1	timereg_2.0.0
##	[43]	grid_4.0.2	nlme_3.1-152	jsonlite_1.7.2
##	[46]	gtable_0.3.0	lifecycle_1.0.0	DBI_1.1.1
##	[49]	magrittr_2.0.1	scales_1.1.1	cli_2.5.0
##	[52]	stringi_1.6.1	farver_2.1.0	fs_1.5.0
##	[55]	xm12_1.3.2	ellipsis_0.3.2	generics_0.1.0
##	[58]	vctrs_0.3.8	Formula_1.2-4	lava_1.6.9
##	[61]	iterators_1.0.13	tools_4.0.2	glue_1.4.2
##	[64]	hms_1.0.0	pec_2020.11.17	survival_3.2-11
##	[67]	yaml_2.2.1	colorspace_2.0-1	rvest_1.0.0
##	[70]	knitr_1.33	haven_2.4.1	