Report title Subtitle

Report prepared for Black Saber Software by Eminence Analytics

2021-04-21

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## Warning: package 'gtsummary' was built under R version 4.0.5	
## Warning: package 'dplyr' was built under R version 4.0.4	
## Warning: package 'tibble' was built under R version 4.0.4	

General comments (you can delete this section)

You can delete this section, and if you want to check what it said, just open a template from the package again. You don't have to use this particular template, but you DO need to write you report in RMarkdown and include a cover page.

The cover page must have:

- A title and subtitle
- "Report prepared for Black Saber Software by" your company name

• Date (assessment submission date is fine)

You can change the colour of this cover to any colour you would like by replacing 6C3082 in the YAML above (line 11) to another hex code. You could use this tool to help you: https://htmlcolorcodes.com/color-picker/

Executive summary

Guidelines for the executive summary:

- No more than two pages
- $\bullet \ \ Language \ is \ appropriate \ for \ a \ non-technical \ audience$
- Bullet points are used where appropriate
- A small number of key visualizations and/or tables are included
- All three research questions are addressed

Technical report

This part of the report is much more comprehensive than the executive summary. The audience is statistics/data-minded people, but you should NOT include code or unformatted R output here.

Introduction

Provide a brief introduction to your report and outline what the report will cover. This section is valuable for setting scope and expectations.

Research questions

Use bullet points to to describe the research questions you are going to address. Write in full sentences.

Informative title for section addressing a research question

For each research question, you will want to briefly describe any data manipulation, show some exploratory plots/summary tables, report on any methods you use (i.e. models you fit) and the conclusions you draw from these

```
## Warning: package 'parameters' was built under R version 4.0.5
## Joining, by = c("applicant_id", "team_applied_for", "cover_letter", "cv", "gpa", "gender", "extracur"
## Joining, by = c("applicant_id", "team_applied_for", "cover_letter", "cv", "gpa", "gender", "extracur"
```

- ## Table printed with `knitr::kable()`, not {gt}. Learn why at
- ## http://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html
- ## To suppress this message, include `message = FALSE` in code chunk header.

		Prefer not to say, N =		
Characteristic	$\mathbf{Man},N=291$	11	Woman, $N = 311$	p-value
applicant id	4,120 (2,705,	3,950 (2,220, 5,240)	4,020 (2,435,	0.8
-	5,445)	, , , , , ,	5,650)	
team_applied_for			, ,	0.2
Data	125 (43%)	7 (64%)	124 (40%)	
Software	166 (57%)	4 (36%)	187 (60%)	
cover_letter	184 (63%)	7 (64%)	203 (65%)	0.9
cv	261 (90%)	7 (64%)	274 (88%)	0.045
gpa	2.70(2.20, 3.25)	$2.40 \ (2.10, \ 2.65)$	2.70(2.20, 3.30)	0.5
extracurriculars	,	,		0.5
0	26 (8.9%)	1 (9.1%)	26 (8.4%)	
1	178 (61%)	9 (82%)	184~(59%)	
2	87 (30%)	1 (9.1%)	101 (32%)	
work_experience	,	,	,	0.8
0	43 (15%)	2 (18%)	50 (16%)	
1	218 (75%)	9 (82%)	223(72%)	
2	30 (10%)	0 (0%)	38 (12%)	
result	` '	,	,	0.3
proceed	145 (50%)	3(27%)	152 (49%)	
refused	146 (50%)	8 (73%)	159 (51%)	

- ## Table printed with `knitr::kable()`, not $\{gt\}$. Learn why at
- ## http://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html
- ## To suppress this message, include `message = FALSE` in code chunk header.

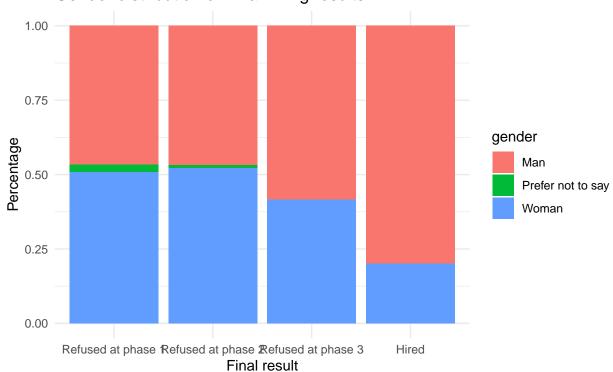
Characteristic	Man , N = 145	Prefer not to say, $N=3$	Woman, $N = 152$
applicant_id	4,237.17 (1,836.63)	3,900.00 (1,755.53)	4,046.45 (1,766.42)
$team_applied_for$			
Data	67 / 145 (46%)	2 / 3 (67%)	63 / 152 (41%)
Software	78 / 145 (54%)	1 / 3 (33%)	89 / 152 (59%)
$cover_letter$	145 / 145 (100%)	3 / 3 (100%)	152 / 152 (100%)
cv	145 / 145 (100%)	3 / 3 (100%)	152 / 152 (100%)
gpa	3.08(0.54)	2.67(0.46)	3.14 (0.54)
extracurriculars			
1	90 / 145 (62%)	2 / 3 (67%)	87 / 152 (57%)
2	55 / 145 (38%)	1 / 3 (33%)	65 / 152 (43%)
work_experience			
0	3 / 145 (2.1%)	0 / 3 (0%)	6 / 152 (3.9%)
1	119 / 145 (82%)	3 / 3 (100%)	114 / 152 (75%)
2	23 / 145 (16%)	0 / 3 (0%)	32 / 152 (21%)
$technical_skills$	$46.38\ (22.16)$	$66.00\ (13.53)$	47.98 (21.45)
$writing_skills$	41.78 (18.05)	42.33 (12.06)	$46.19\ (19.35)$
leadership_presence	4.92(2.53)	4.33(4.16)	4.07(2.05)
$speaking_skills$	5.08(2.39)	6.67(2.08)	3.31(2.05)
result			
proceed	15 / 145 (10%)	0 / 3 (0%)	7 / 152 (4.6%)
refused	130 / 145 (90%)	3 / 3 (100%)	145 / 152 (95%)

- ## Table printed with `knitr::kable()`, not {gt}. Learn why at
- ## http://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html
- ## To suppress this message, include `message = FALSE` in code chunk header.

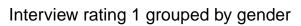
Characteristic	Man , N = 291	Prefer not to say, N = 11	Woman, $N = 311$
applicant_id	4,101.07 (1,744.82)	3,766.36 (1,949.83)	4,051.67 (1,793.59)
$team_applied_for$			
Data	125 / 291 (43%)	7 / 11 (64%)	124 / 311 (40%)
Software	166 / 291 (57%)	4 / 11 (36%)	187 / 311 (60%)
$cover_letter$	184 / 291 (63%)	7 / 11 (64%)	203 / 311 (65%)
cv	261 / 291 (90%)	7 / 11 (64%)	274 / 311 (88%)
gpa	2.71(0.67)	$2.50 \ (0.58)$	2.72(0.67)
extracurriculars			
0	26 / 291 (8.9%)	1 / 11 (9.1%)	26 / 311 (8.4%)
1	178 / 291 (61%)	9 / 11 (82%)	184 / 311 (59%)
2	87 / 291 (30%)	1 / 11 (9.1%)	101 / 311 (32%)
work_experience			
0	43 / 291 (15%)	2 / 11 (18%)	50 / 311 (16%)
1	218 / 291 (75%)	9 / 11 (82%)	223 / 311 (72%)
2	30 / 291 (10%)	0 / 11 (0%)	38 / 311 (12%)
$technical_skills$	$46.38\ (22.16)$	66.00 (13.53)	47.98 (21.45)
(Missing)	146	8	159
$writing_skills$	$41.78 \ (18.05)$	42.33 (12.06)	$46.19\ (19.35)$
(Missing)	146	8	159

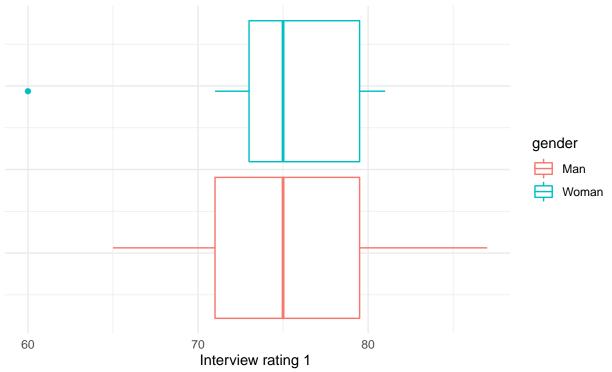
Characteristic	$\mathbf{Man},\mathrm{N}=291$	Prefer not to say, $N = 11$	Woman, $N = 311$
leadership_presence	4.92 (2.53)	4.33 (4.16)	4.07 (2.05)
(Missing)	146	8	159
speaking_skills	5.08(2.39)	6.67(2.08)	3.31(2.05)
(Missing)	146	8	159
interviewer_rating_1	75.53(5.84)	NA (NA)	74.43 (7.25)
(Missing)	276	11	304
interviewer_rating_2	75.33(9.70)	NA (NA)	75.00(7.92)
(Missing)	276	11	304
$final_result$			
Refused at phase 1	146 / 291 (50%)	8 / 11 (73%)	159 / 311 (51%)
Refused at phase 2	130 / 291 (45%)	3 / 11 (27%)	145 / 311 (47%)
Refused at phase 3	7 / 291 (2.4%)	0 / 11 (0%)	5 / 311 (1.6%)
Hired	8 / 291 (2.7%)	0 / 11 (0%)	2 / 311 (0.6%)
result	, , ,	, , ,	, , , ,
Hired	8 / 291 (2.7%)	0 / 11 (0%)	2 / 311 (0.6%)
no	283 / 291 (97%)	11 / 11 (100%)	309 / 311 (99%)

Gender distribution on final hiring results

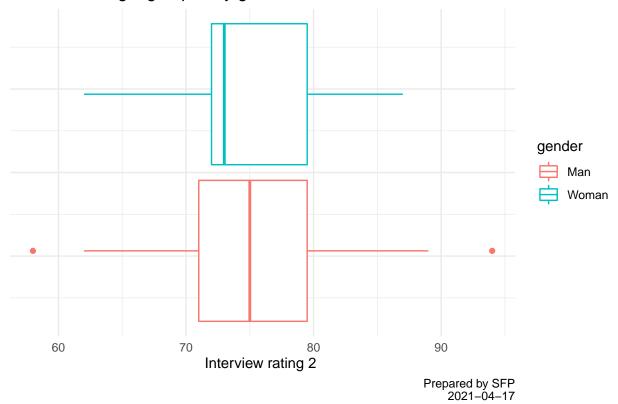


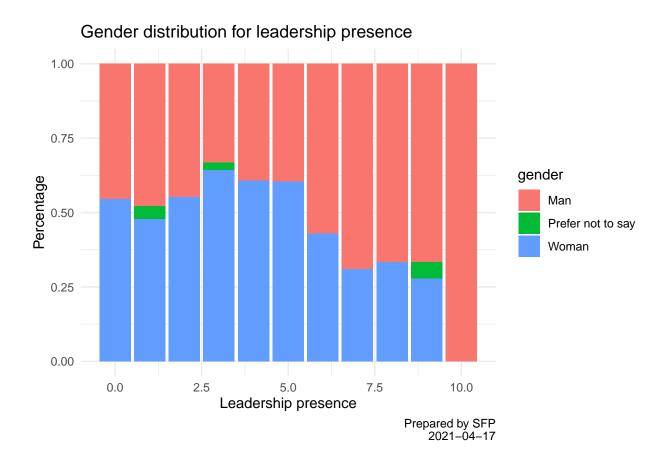
Prepared by SFP 2021-04-17

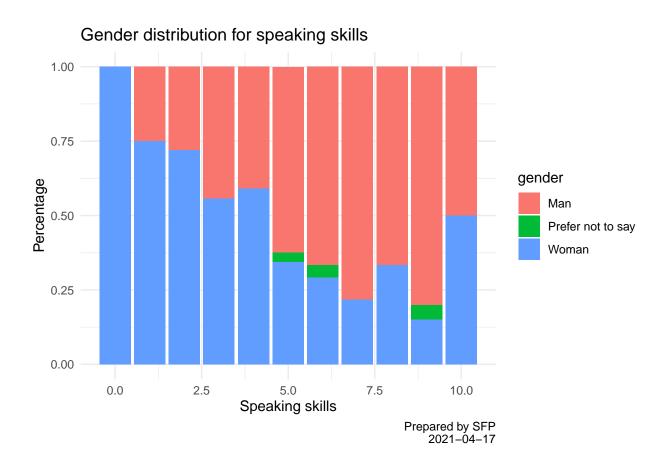


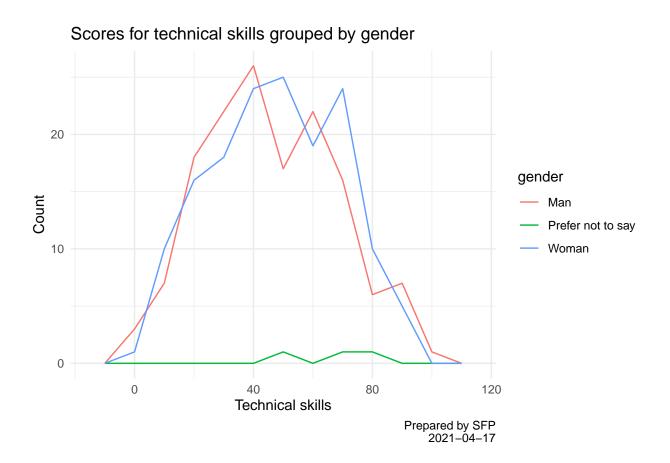


Interview rating 2 grouped by gender

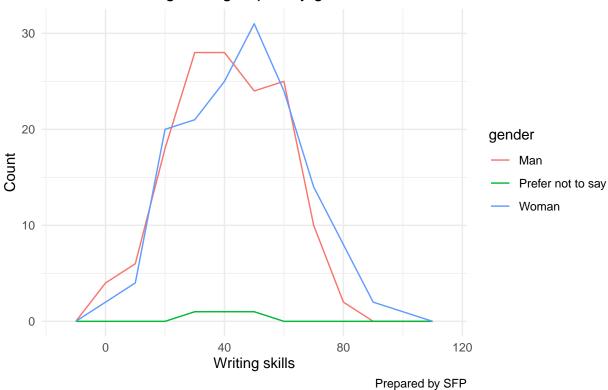








Scores for writing skills grouped by gender



2021-04-17

```
##
## Call:
## glm(formula = as.factor(result) ~ gpa + as.factor(gender) + extracurriculars +
       work_experience, family = binomial("logit"), data = phase1)
##
## Deviance Residuals:
##
                1Q
                    Median
                                  3Q
      Min
                                          Max
## -2.0573 -0.7890
                     0.2768
                              0.7159
                                       2.4499
##
## Coefficients:
##
                                     Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                                                 0.53772 11.909
                                                                   <2e-16 ***
                                      6.40374
                                     -1.97580
                                                 0.21076 -9.375
                                                                   <2e-16 ***
## as.factor(gender)Prefer not to say 0.57889
                                                 0.79473 0.728
                                                                   0.4664
                                                                   0.7511
## as.factor(gender)Woman
                                      0.06458
                                                 0.20361
                                                           0.317
## extracurriculars
                                     -0.26442
                                                 0.19616 -1.348
                                                                   0.1777
                                                                   0.0032 **
## work_experience
                                     -0.75728
                                                 0.25693 -2.947
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 849.52 on 612 degrees of freedom
## Residual deviance: 600.83 on 607 degrees of freedom
## AIC: 612.83
##
```

```
## Number of Fisher Scoring iterations: 4

## Table printed with `knitr::kable()`, not {gt}. Learn why at
## http://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html
```

To suppress this message, include `message = FALSE` in code chunk header.

Characteristic	OR	95% CI	p-value
gpa as.factor(gender) Man	0.14	0.09, 0.21	<0.001
Prefer not to say Woman extracurriculars work_experience	1.78 1.07 0.77 0.47	0.42, 10.1 0.72, 1.59 0.52, 1.13 0.28, 0.76	0.5 0.8 0.2 0.003

```
##
## Call:
## glm(formula = as.factor(result) ~ gpa + as.factor(gender) + extracurriculars +
      work experience + leadership presence + speaking skills +
      technical_skills + writing_skills, family = binomial("logit"),
##
##
      data = phase2)
##
## Deviance Residuals:
##
       Min 1Q
                        Median
                                      3Q
                                               Max
## -2.98920 0.00767
                       0.03916 0.15889
                                           2.01541
##
## Coefficients:
                                       Estimate Std. Error z value Pr(>|z|)
##
## (Intercept)
                                       19.90091
                                                   3.91877 5.078 3.81e-07 ***
                                        0.77031
                                                   0.76231
                                                            1.010 0.31226
## as.factor(gender)Prefer not to say
                                       16.61510 2031.56549
                                                            0.008 0.99347
## as.factor(gender)Woman
                                        0.52264
                                                   0.75916
                                                            0.688 0.49118
## extracurriculars
                                        0.35768
                                                   0.70999
                                                            0.504 0.61442
## work_experience
                                                   0.77207 -0.015 0.98788
                                       -0.01173
## leadership_presence
                                       -0.97439
                                                   0.21877 -4.454 8.43e-06 ***
## speaking skills
                                       -0.76314
                                                   0.17979 -4.245 2.19e-05 ***
## technical_skills
                                       -0.09402
                                                   0.02469 -3.808 0.00014 ***
## writing skills
                                       -0.10349
                                                   0.02639 -3.921 8.81e-05 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 157.31 on 299 degrees of freedom
## Residual deviance: 67.31 on 290 degrees of freedom
## AIC: 87.31
##
## Number of Fisher Scoring iterations: 16
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
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## Warning in regularize.values(x, y, ties, missing(ties), na.rm = na.rm):
## collapsing to unique 'x' values
## Table printed with `knitr::kable()`, not {gt}. Learn why at
## http://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html
```

To suppress this message, include `message = FALSE` in code chunk header.

Characteristic	OR	95% CI	p-value
gpa	2.16	0.51, 10.7	0.3
as.factor(gender)			
Man			
Prefer not to say	$16,\!437,\!923$	0.00, NA	> 0.9
Woman	1.69	0.38, 7.87	0.5
extracurriculars	1.43	0.36, 6.15	0.6
work_experience	0.99	0.22, 4.85	> 0.9
leadership_presence	0.38	0.23, 0.55	< 0.001
speaking_skills	0.47	0.31, 0.64	< 0.001
$technical_skills$	0.91	0.86, 0.95	< 0.001
$writing_skills$	0.90	0.85, 0.94	< 0.001

Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred ## ## Call: ## glm(formula = as.factor(result) ~ gpa + as.factor(gender) + extracurriculars + work_experience + leadership_presence + speaking_skills + ## technical_skills + writing_skills + interviewer_rating_1 + ## interviewer_rating_2, family = binomial("logit"), data = phase3) ## ## Deviance Residuals: Min 1Q Median 30 Max ## -1.045e-05 -1.739e-06 2.110e-08 2.928e-06 9.548e-06 ## Coefficients: Estimate Std. Error z value Pr(>|z|)5.305e+02 1.288e+06 Ω ## (Intercept) 1 3.411e+00 2.778e+05 ## gpa ## as.factor(gender)Woman 5.817e+01 3.177e+05 0 ## extracurriculars -8.318e+00 1.985e+05 0 ## work_experience 9.562e+00 2.205e+05 0 1 ## leadership_presence 1.636e+02 9.451e+05 0 1 0 ## speaking skills 1.658e+02 8.931e+05 ## technical_skills 1.695e+01 9.460e+04 0 1 1.745e+01 9.229e+04 0 ## writing_skills 1 ## interviewer_rating_1 -6.058e+01 3.221e+05 0 1 ## interviewer_rating_2 -3.157e+00 1.543e+04 0 ## ## (Dispersion parameter for binomial family taken to be 1) ## Null deviance: 3.0316e+01 on 21 degrees of freedom ## Residual deviance: 5.3722e-10 on 11 degrees of freedom ## AIC: 22 ## ## Number of Fisher Scoring iterations: 25

 $\hbox{\tt \#\# Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred}$

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## Warning in regularize.values(x, y, ties, missing(ties), na.rm = na.rm):
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## collapsing to unique 'x' values
## ! `broom::tidy()` failed to tidy the model.
## x need at least two non-NA values to interpolateapprox(sp$y, sp$x, xout = cutoff)
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## Warning in regularize.values(x, y, ties, missing(ties), na.rm = na.rm):
## collapsing to unique 'x' values
## v `tidy_parameters()` used instead.
## i Add `tidy_fun = tidy_parameters` to quiet these messages.
## Table printed with `knitr::kable()`, not {gt}. Learn why at
## http://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html
## To suppress this message, include `message = FALSE` in code chunk header.
```

Character	istic OR	95% CI	p- value
gpa	30.3	0.00, Inf	>0.9
as.factor(ge	nder)		
Man Woman	18,286,077,681,272,950,710,462,086	0.00,	>0.9
vvoillaii	10,200,011,001,212,000,110,402,000	Inf	/0.5

```
95%
                                                      p-
Characteristic OR
                                                \mathbf{CI}
                                                      value
extracurriculars 0.00
                                                0.00.
                                                      > 0.9
                                                Inf
work_experience14,215
                                                0.00.
                                                      > 0.9
                                                Inf
Inf
                                                0.00,
technical skills 22,934,249
                                                      > 0.9
                                                Inf
writing skills
         38,055,421
                                                0.00,
                                                      > 0.9
                                                Inf
interviewer\_ratin0g001
                                                0.00,
                                                      > 0.9
                                                Inf
interviewer ratin@042
                                                0.00,
                                                      > 0.9
                                                Inf
```

```
##
## Call:
  glm(formula = as.factor(result) ~ gpa + as.factor(gender) + extracurriculars +
       work_experience + leadership_presence + speaking_skills +
##
##
       technical_skills + writing_skills + interviewer_rating_1 +
##
       interviewer_rating_2, family = binomial("logit"), data = all_phases)
##
## Deviance Residuals:
##
                                               3Q
          Min
                               Median
                                                           Max
## -1.045e-05 -1.739e-06
                            2.110e-08
                                        2.928e-06
                                                    9.548e-06
##
## Coefficients:
##
                            Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                           5.305e+02 1.288e+06
                                                       0
                                                       0
                                                                1
## gpa
                           3.411e+00 2.778e+05
                                                       0
## as.factor(gender)Woman 5.817e+01 3.177e+05
## extracurriculars
                          -8.318e+00 1.985e+05
                                                       0
                                                                1
                                                       0
## work_experience
                           9.562e+00 2.205e+05
                                                                1
                                                       0
## leadership_presence
                           1.636e+02 9.451e+05
                                                                1
## speaking_skills
                           1.658e+02 8.931e+05
                                                       0
                                                                1
                           1.695e+01 9.460e+04
## technical_skills
                                                       0
                                                                1
## writing_skills
                           1.745e+01 9.229e+04
                                                       0
                                                                1
                                                       0
## interviewer_rating_1
                          -6.058e+01 3.221e+05
                                                                1
                          -3.157e+00 1.543e+04
                                                       0
## interviewer_rating_2
## (Dispersion parameter for binomial family taken to be 1)
##
```

Null deviance: 3.0316e+01 on 21 degrees of freedom

Residual deviance: 5.3722e-10 on 11 degrees of freedom
(591 observations deleted due to missingness)

##

##

AIC: 22

Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred

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## Number of Fisher Scoring iterations: 25
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
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## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning in regularize.values(x, y, ties, missing(ties), na.rm = na.rm):
## collapsing to unique 'x' values
## ! `broom::tidy()` failed to tidy the model.
## x need at least two non-NA values to interpolateapprox(sp$y, sp$x, xout = cutoff)
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
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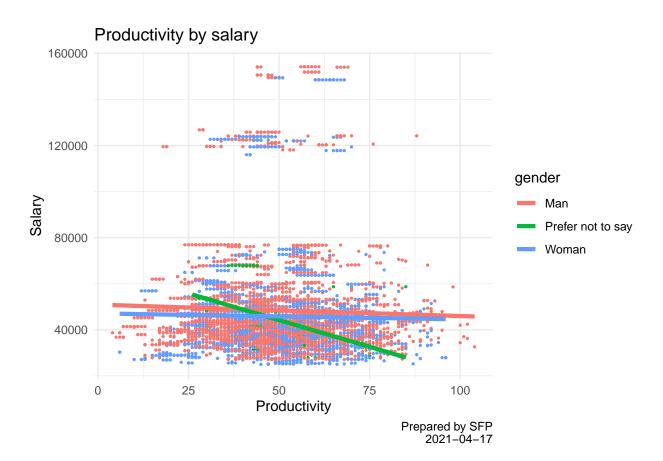
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## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
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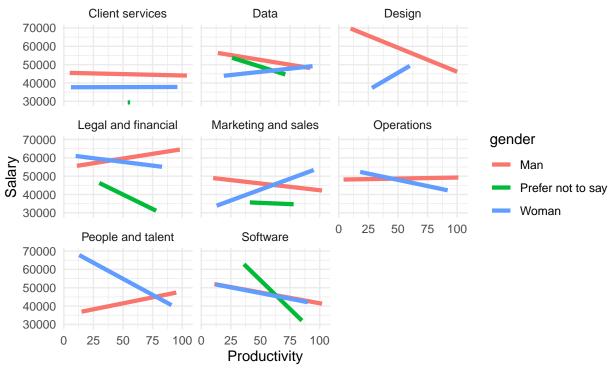
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## Warning in regularize.values(x, y, ties, missing(ties), na.rm = na.rm):
## collapsing to unique 'x' values
## v `tidy_parameters()` used instead.
## i Add `tidy_fun = tidy_parameters` to quiet these messages.
## Table printed with `knitr::kable()`, not {gt}. Learn why at
## http://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html
## To suppress this message, include `message = FALSE` in code chunk header.
```

Characterist	ic OR	95% CI	p- value
Characterist			
gpa	30.3	0.00, Inf	>0.9
as.factor(gend	er)		
Man	10 000 000 001 000 000 010 100 000	0.00	. 0.0
Woman	18,286,077,681,272,950,710,462,086	0.00, Inf	>0.9
extracurricula	rs 0.00	0.00,	> 0.9
		Inf	
work experies	ncel4,215	0.00,	>0.9
	,	\inf	
leadership pr	eseht#,728,837,893,962,624,784,282,020,882,460,64		6.20\(\delta\)04\(\text{98.860.2}\)
		Inf	·,-·-,,,-
speaking skill	s 1,007,767,241,528,988,120,404,248,860,246,486,4		46.9 6 49420.428.
~p ~~~~~~	1,001,101,211,020,000,120,101,210,000,210,100,1	Inf	110,000,120,120,
technical_skil	s 22.934.249	0.00,	>0.9
00011111001_01111	2,00 1,2 10	Inf	, 0.0
writing_skills	38,055,421	0.00,	>0.9
wireing_emile	30,000,121	Inf	<i>></i> 0.0
interviewer_ra	utimon01	0.00,	>0.9
111101 VIC WOI1	2011 P. C.	Inf	× 0.0
interviewer ra	atimon42	0.00,	>0.9
111001 V 10 W 0110	VIIII	Inf	× 0.0

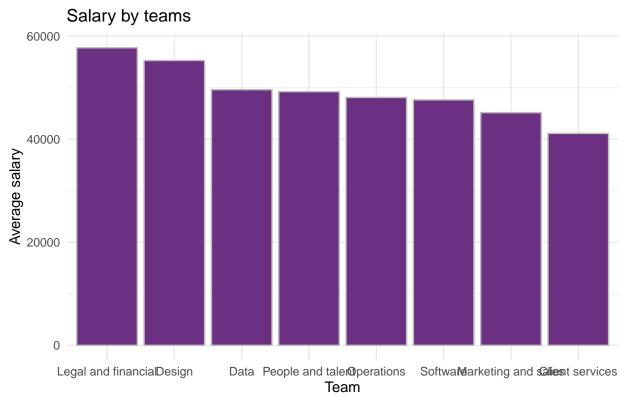
Characteristic	$\mathbf{Man},\mathrm{N}=340$	Prefer not to say, $N = 10$	Woman, $N = 257$
role_seniority			
Director	12 (3.5%)	0 (0%)	7 (2.7%)
Entry-level	79 (23%)	3 (30%)	96 (37%)
Junior I	69 (20%)	2 (20%)	53 (21%)
Junior II	53 (16%)	2 (20%)	17 (6.6%)
Manager	19(5.6%)	1 (10%)	8 (3.1%)
Senior I	42 (12%)	1 (10%)	29 (11%)
Senior II	28 (8.2%)	1 (10%)	21 (8.2%)
Senior III	32 (9.4%)	0 (0%)	24 (9.3%)
Vice president	6 (1.8%)	0 (0%)	2(0.8%)
productivity	50 (42, 60)	46 (42, 58)	54 (43, 64)
salary	41,150 (35,600, 50,125)	39,050 (34,100, 46,475)	34,900 (30,600, 44,600)



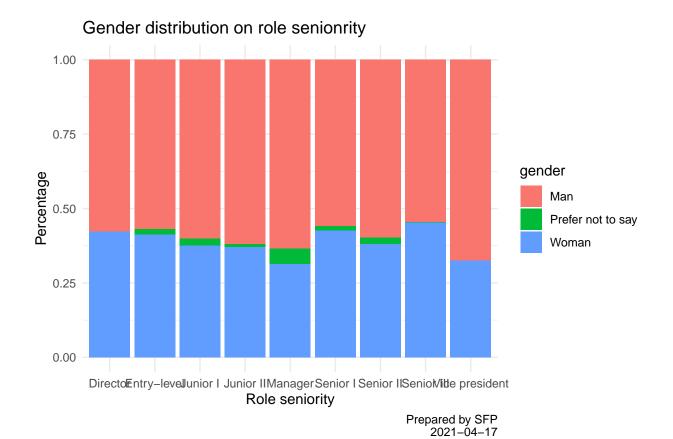
Productivity by salary



Prepared by SFP 2021-04-17



Prepared by SFP 2021-04-17



Productivity histogram for all current employees

400

200

25

50

productivity

Informative title for section addressing a research question Informative title for section addressing a research question

Discussion

In this section you will summarize your findings across all the research questions and discuss the strengths and limitations of your work. It doesn't have to be long, but keep in mind that often people will just skim the intro and the discussion of a document like this, so make sure it is useful as a semi-standalone section (doesn't have to be completely standalone like the executive summary).

Strengths and limitations

Consultant information

Consultant profiles

Complete this section with a brief bio for each member of your group. If you are completing the project individually, you only need to complete one for yourself. In that case, change the title of this section to 'Consultant profile' instead. Examples below. This section is only marked for completeness, clarity and professionalism, not 'truth' so you can write it as if we're a few years in the future. Put your current degree in as completed and/or add your first choice grad school program, whatever you like. What skills related skills would you most like to highlight? What job title do you want?

Lucas Xian. Lucas is a senior consultant with SFP. He specializes in data analysis and visualization. Lucas earned his Honours Bachelor of Science, Specialist in Statistics, from the University of Toronto in 2023.

Dandan Zhang. Dandan is a junior consultant with SFP. She earned her Bachelor of Science, majoring in Mathematics and Statistics, from the University of Toronto in 2021. She specializes in data visualization.

Code of ethical conduct

This section should be fairly short, no more than half a page. Assume a general audience, much like your executive summary.

- Make at least three relevant statements about your company's approach to ethical statistical consulting. These should be appropriately in line with professional conduct advice like the (Statistical Society of Canada Code of Conduct)[https://ssc.ca/sites/default/files/data/Members/public/Accreditation/ethics_e.pdf] or the (Ethical Guidelines for Statistical Practice from the American Statistical Society)[https://www.amstat.org/ASA/Your-Career/Ethical-Guidelines-for-Statistical-Practice.aspx]. For example, "the customer is always right" ISN'T the type of thing an ethical statistical consultant would include.
- Be very careful not to just copy and paste from these other documents! Put things in your own words.

Final advice: KNIT EARLY AND OFTEN!