

Codebook for att

Autogenerated data summary from dataMaid

2019-08-18 04:12:04

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	870
Number of variables	36

Codebook summary table

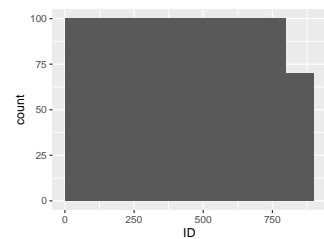
Label	Variable	Class	# unique values	Missing	Description
	ID	integer	870	0.00 %	
	Age	integer	43	0.00 %	
	Attrition	character	2	0.00 %	
	BusinessTravel	character	3	0.00 %	
	DailyRate	integer	627	0.00 %	
	Department	character	3	0.00 %	
	DistanceFromHome	integer	29	0.00 %	
	Education	integer	5	0.00 %	
	EducationField	character	6	0.00 %	
	EmployeeCount	integer	1	0.00 %	
	EmployeeNumber	integer	870	0.00 %	
	EnvironmentSatisfaction	integer	4	0.00 %	
	Gender	character	2	0.00 %	
	HourlyRate	integer	71	0.00 %	
	JobInvolvement	integer	4	0.00 %	
	JobLevel	integer	5	0.00 %	
	JobRole	character	9	0.00 %	
	JobSatisfaction	integer	4	0.00 %	
	MaritalStatus	character	3	0.00 %	
	MonthlyIncome	integer	826	0.00 %	
	MonthlyRate	integer	852	0.00 %	
	NumCompaniesWorked	integer	10	0.00 %	
	Over18	character	1	0.00 %	
	OverTime	character	2	0.00 %	
	PercentSalaryHike	integer	15	0.00 %	
	PerformanceRating	integer	2	0.00 %	
	RelationshipSatisfaction	integer	4	0.00 %	
	StandardHours	integer	1	0.00 %	
	StockOptionLevel	integer	4	0.00 %	
	TotalWorkingYears	integer	39	0.00 %	
	TrainingTimesLastYear	integer	7	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
	WorkLifeBalance	integer	4	0.00 %	
	YearsAtCompany	integer	32	0.00 %	
	YearsInCurrentRole	integer	19	0.00 %	
	YearsSinceLastPromotion	integer	16	0.00 %	
	YearsWithCurrManager	integer	17	0.00 %	

Variable list

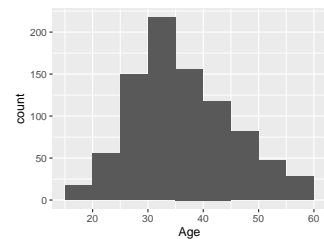
ID

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	870
Median	435.5
1st and 3rd quartiles	218.25; 652.75
Min. and max.	1; 870



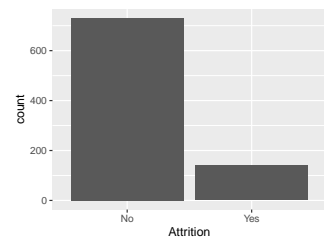
Age

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	43
Median	35
1st and 3rd quartiles	30; 43
Min. and max.	18; 60



Attrition

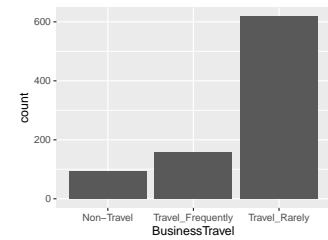
Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	2
Mode	"No"



- Observed factor levels: "No", "Yes".

BusinessTravel

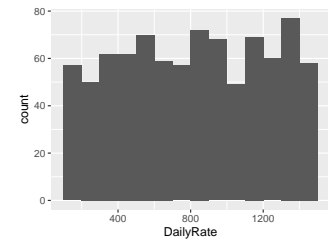
Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	3
Mode	"Travel_Rarely"



- Observed factor levels: "Non-Travel", "Travel_Frequently", "Travel_Rarely".

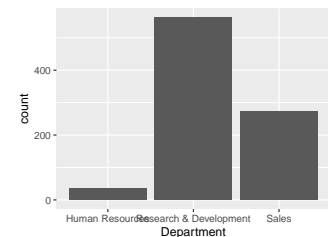
DailyRate

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	627
Median	817.5
1st and 3rd quartiles	472.5; 1165.75
Min. and max.	103; 1499



Department

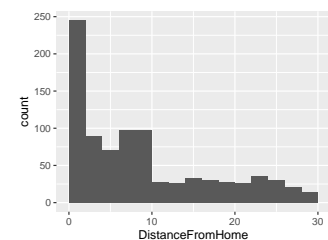
Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	3
Mode	"Research & Development"



- Observed factor levels: "Human Resources", "Research & Development", "Sales".

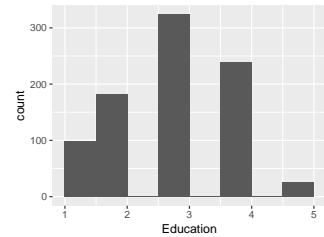
DistanceFromHome

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	29
Median	7
1st and 3rd quartiles	2; 14
Min. and max.	1; 29



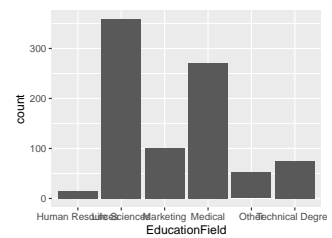
Education

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	5
Median	3
1st and 3rd quartiles	2; 4
Min. and max.	1; 5



EducationField

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	6
Mode	"Life Sciences"



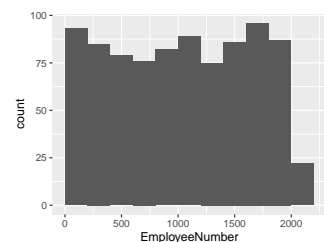
- Observed factor levels: "Human Resources", "Life Sciences", "Marketing", "Medical", "Other", "Technical Degree".

EmployeeCount

- The variable only takes one (non-missing) value: "1". The variable contains 0 % missing observations.

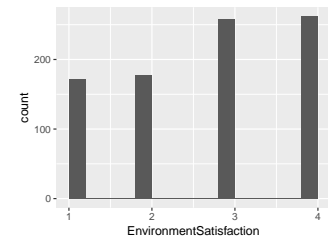
EmployeeNumber

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	870
Median	1039
1st and 3rd quartiles	477.25; 1561.5
Min. and max.	1; 2064



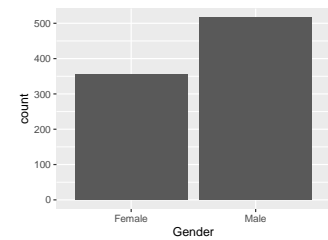
EnvironmentSatisfaction

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	3
1st and 3rd quartiles	2; 4
Min. and max.	1; 4



Gender

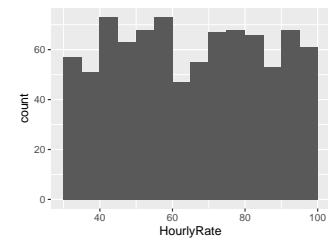
Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	2
Mode	"Male"



- Observed factor levels: "Female", "Male".

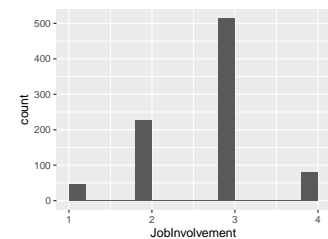
HourlyRate

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	71
Median	66
1st and 3rd quartiles	48; 83
Min. and max.	30; 100



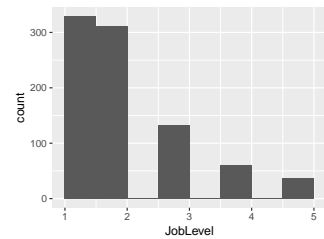
JobInvolvement

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	3
1st and 3rd quartiles	2; 3
Min. and max.	1; 4



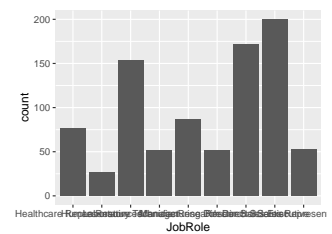
JobLevel

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	5
Median	2
1st and 3rd quartiles	1; 3
Min. and max.	1; 5



JobRole

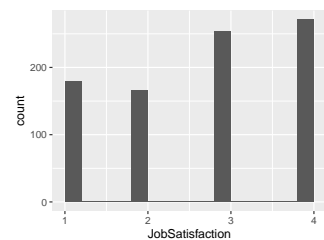
Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	9
Mode	"Sales Executive"



- Observed factor levels: "Healthcare Representative", "Human Resources", "Laboratory Technician", "Manager", "Manufacturing Director", "Research Director", "Research Scientist", "Sales Executive", "Sales Representative".

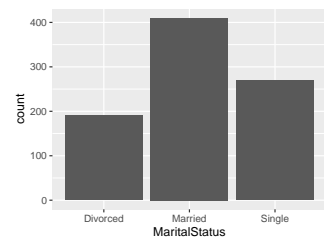
JobSatisfaction

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	3
1st and 3rd quartiles	2; 4
Min. and max.	1; 4



MaritalStatus

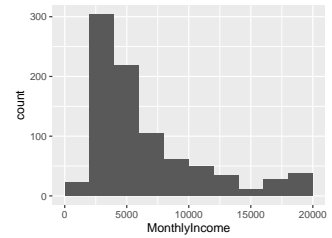
Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	3
Mode	"Married"



- Observed factor levels: "Divorced", "Married", "Single".

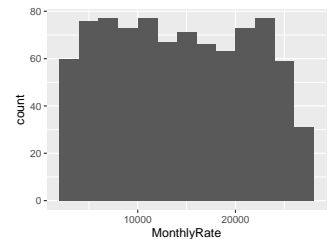
MonthlyIncome

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	826
Median	4945.5
1st and 3rd quartiles	2839.5; 8182
Min. and max.	1081; 19999



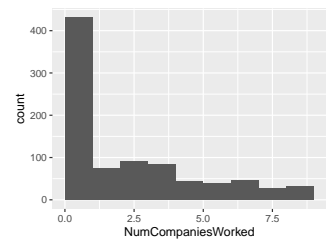
MonthlyRate

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	852
Median	14074.5
1st and 3rd quartiles	8092; 20456.25
Min. and max.	2094; 26997



NumCompaniesWorked

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	10
Median	2
1st and 3rd quartiles	1; 4
Min. and max.	0; 9



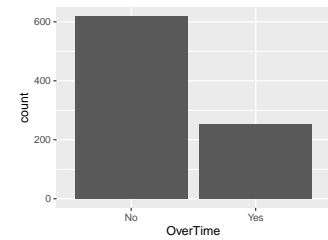
Over18

- The variable only takes one (non-missing) value: "Y". The variable contains 0 % missing observations.
-

OverTime

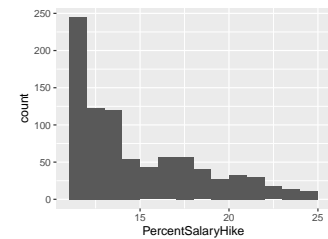
Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	2
Mode	"No"

- Observed factor levels: "No", "Yes".



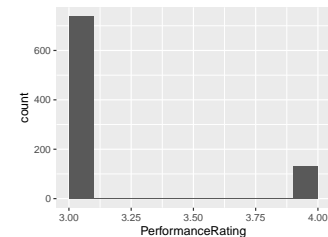
PercentSalaryHike

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	15
Median	14
1st and 3rd quartiles	12; 18
Min. and max.	11; 25



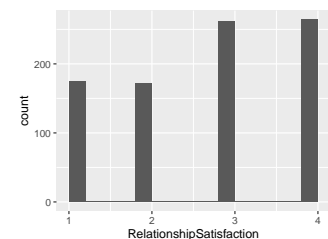
PerformanceRating

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	2
Median	3
1st and 3rd quartiles	3; 3
Min. and max.	3; 4



RelationshipSatisfaction

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	3
1st and 3rd quartiles	2; 4
Min. and max.	1; 4

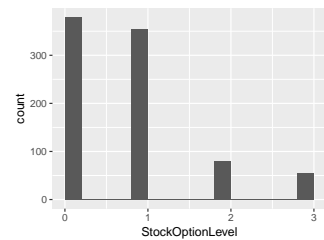


StandardHours

- The variable only takes one (non-missing) value: "80". The variable contains 0 % missing observations.

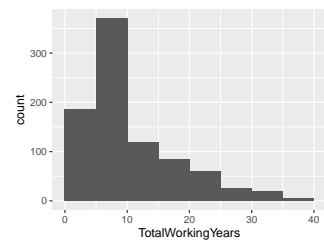
StockOptionLevel

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	1
1st and 3rd quartiles	0; 1
Min. and max.	0; 3



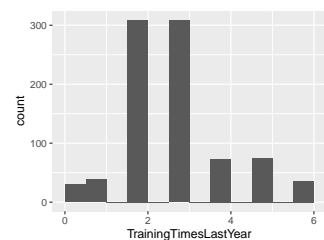
TotalWorkingYears

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	39
Median	10
1st and 3rd quartiles	6; 15
Min. and max.	0; 40



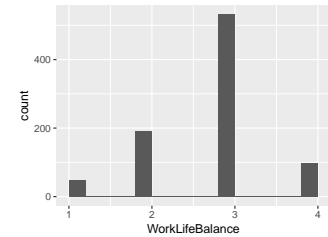
TrainingTimesLastYear

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	7
Median	3
1st and 3rd quartiles	2; 3
Min. and max.	0; 6



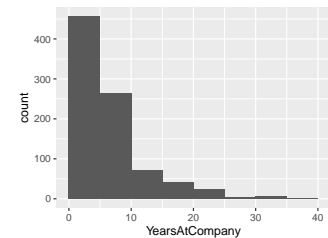
WorkLifeBalance

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	3
1st and 3rd quartiles	2; 3
Min. and max.	1; 4



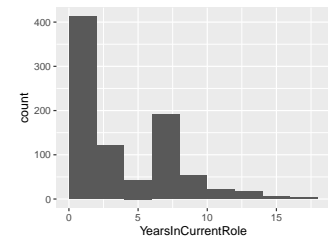
YearsAtCompany

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	32
Median	5
1st and 3rd quartiles	3; 10
Min. and max.	0; 40



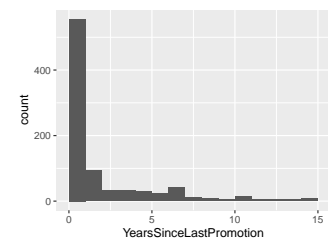
YearsInCurrentRole

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	19
Median	3
1st and 3rd quartiles	2; 7
Min. and max.	0; 18



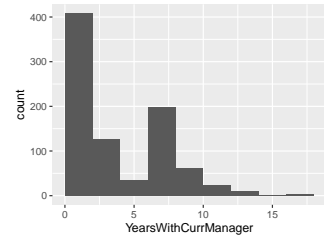
YearsSinceLastPromotion

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	16
Median	1
1st and 3rd quartiles	0; 3
Min. and max.	0; 15



YearsWithCurrManager

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	17
Median	3
1st and 3rd quartiles	2; 7
Min. and max.	0; 17



Report generation information:

- Created by Blake Holmes (username: bjholmes).
- Report creation time: Sun Aug 18 2019 04:12:04
- Report was run from directory: /Users/bjholmes/Library/Mobile Documents/com~apple~CloudDocs/DataScience/Data Science/Unit_14/Case-study-2
- dataMaid v1.3.0 [Pkg: 2019-06-07 from CRAN (R 3.5.2)]
- R version 3.5.1 (2018-07-02).
- Platform: x86_64-apple-darwin15.6.0 (64-bit)(macOS 10.14.6).
- Function call: `makeDataReport(data = att, mode = c("summarize", "visualize", "check"), smartNum = FALSE, file = "codebook_att.Rmd", replace = TRUE, checks = list(character = "showAllFactorLevels", factor = "showAllFactorLevels", labelled = "showAllFactorLevels", haven_labelled = "showAllFactorLevels", numeric = NULL, integer = NULL, logical = NULL, Date = NULL), listChecks = FALSE, maxProbVals = Inf, codebook = TRUE, reportTitle = "Codebook for att")`