panel_trader_round_uoft.csv

Autogenerated data summary from dataMaid

2023-11-21 21:15:44

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	273
Number of variables	40

Codebook summary table

Label	Variable	Class	# unique values	Missing	Description
Unique participant code	**participant_code**	character	71	0.00 %	
Indicates the round number of the experiment or activity the participant was engaged in at the time of the page visit.	**round_number**	numeric	4	0.00 %	
Internal (abbreviated) treatment name	**player.inner_name**	character	4	0.00 %	
The number of transactions completed by the participant up to the point of this event.	**n_transactions**	numeric	28	0.00 %	
Sum of absolute optimal trade signs per round, representing the total number of optimal trades.	**optimal_trade_count**	numeric	5	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
Indicates if a round is gamified (1) or not (0), based on round and block criteria.	**gamified**	numeric	2	0.00 %	
Marks a round as salient (1) or non-salient (0), depending on the specific round and block combination.	**salient**	numeric	2	0.00 %	
player's payoff in specific round (it becomes his/her actual payoff if this round is selected for payment)	**player.intermediary_payoff**	numeric	39	0.00 %	
A binary indicator where 1 represents participants who were in specific game blocks ("block 3 (G second)" or "block 4 (G second)") or 0 otherwise	**ingame_experience**	numeric	2	0.00 %	
Participant's average normalized accuracy of first-tick predictions.	**accuracy_pred_zero**	numeric	3	0.00 %	
Self-reported assessment of the player's knowledge in trading	**player.knowledge**	numeric	10	0.00 %	
the difference between a participant's self-rated knowledge and their actual payoff, both normalized to a scale from 0 to 1	**overconfidence**	numeric	29	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
The ratio of a participant's realized gains to their total recognized and unrealized gains within a round.	**PGR**	numeric	93	0.37 %	
The ratio of a participant's realized losses to their total recognized and unrealized losses within a round.	**PLR**	numeric	75	0.00 %	
The ratio of realized gains to the total of realized and paper gains during ticks where a green or red alert was triggered	**PGR_alerts**	numeric	15	9.52 %	
The ratio of realized losses to the total of realized and paper losses during ticks where a green or red alert was triggered	**PLR_alerts**	numeric	15	1.83 %	
Ratio of actual to optimal trades, with NaN indicating no optimal trades.	**excessive_trading**	numeric	62	19.05 %	
The net difference between a participant's gain ratio and loss ratio.	**diff_PGR_PLR**	numeric	202	0.37 %	
The difference between the count of gain-related alerts and loss-related alerts for a participant.	**diff_PGR_PLR_alerts**	numeric	38	11.36 %	

Label	Variable	Class	# unique values	Missing	Description
Age of the player.	**player.age**	numeric	6	0.00 %	
Payoff for the player in this round	**player.payoff**	numeric	4	0.00 %	
Gender of the player.	**player.gender**	character	2	0.00 %	
Did you take any course focused on financial markets	**player.course_financial**	numeric	2	0.00 %	
Do you have any trading experience?	**player.trading_experience**	numeric	2	0.00 %	
Do you use mobile trading apps?	**player.online_trading_experience**	numeric	2	0.00 %	
The total number of buy trades a participant makes in each round within each specific internal treatment category.	**count_buy**	numeric	21	0.00 %	
The total number of sell trades a participant makes in each round within each specific internal treatment category.	**count_sell**	numeric	21	0.00 %	
The average Markovian model-based probability of a favorable price movement associated with buy trades for each participant per round.	**filtered_prob_buy**	numeric	218	2.56 %	

Label	Variable	Class	# unique values	Missing	Description
The average Markovian model-based probability of a favorable price movement associated with sell trades for each participant per round.	**filtered_prob_sell**	numeric	219	0.00 %	
Standard deviation of Markovian probabilities associated with buy trades, reflecting the variability in price movement estimates for each participant per round.	**std_buy_prob**	numeric	210	6.96 %	
Standard deviation of Markovian probabilities associated with sell trades, indicating the variability in price movement estimates for each participant per round.	**std_sell_prob**	numeric	212	4.76 %	
A participant's assessment of the likelihood of the stock price increasing, provided both before trading begins and midway through the trading day, in response to the question "How likely is the stock to go up next?"	**prediction**	numeric	5	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
Normalized measure of how closely a participant's prediction aligns with the perceived probability.	**prediction_accuracy**	numeric	4	0.00 %	
Normalized value representing a participant's self-reported confidence in their prediction.	**prediction_confidence**	numeric	5	0.00 %	
If you could trade again, would you rather trade on a platform with Design #1 or Design #2?	**player.sr_prefs**	character	2	0.00 %	
If you could trade again, would you expect to make better decisions when the market looks as in Design #1 or #2?	**player.sr_better_decs**	character	2	0.00 %	
If you could trade again, would you prefer to be given an option between Design #1 and Design #2, or only trade on Design #1	**player.sr_better_have_option**	character	2	0.00 %	
Please rate the following trading app features on a scale from 1 (strongly dislike) to 5 (strongly like): Price notifications	**player.sr_notifications**	numeric	6	30.77 %	

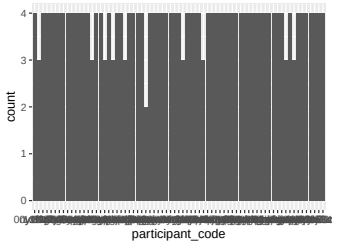
Label	Variable	Class	# unique values	Missing	Description
Please rate the following trading app features on a scale from 1 (strongly dislike) to 5 (strongly like): Achievement badges	**player.sr_badges**	numeric	6	49.45 %	
Please rate the following trading app features on a scale from 1 (strongly dislike) to 5 (strongly like): Achievement messages and confetti	**player.sr_confetti**	numeric	6	49.45 %	

Variable list

participant_code

Unique participant code

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	71
Mode	"0nyvn1ih"



- Observed factor levels: "0nyvn1ih", "0ysr1j7s", "1c9lzru0", "1f2rfly4", "2f9gqu83", "34e7d6u1", "3cbm3sys", "41x3lsag", "5c7udvpd", "5gtepg45", "5kbeb2zm", "5wgi88t6", "5ymfsw49", "7eu86eyg", "7jonfg2l", "7qzgrb99", "8vfnqphr", "8vrmmtmo", "93y42seh", "9xz1zuoz", "aqvtf4p9", "b8u4u74w", "bgjp13q8", "bi2jfx42", "bi5jp617", "bsjfe8ds", "cj9n1uj4", "dhiqzueo", "fcp9s0do", "fizyhuoi", "g4ux0ytr", "galec1ga", "gcs54w3b", "gnzz7gc4", "gy1a20qq", "hre8fq8i", "i6yb4yej", "in3zb9k3", "iwam94ip", "izacs7fd", "j127swcg", "k744ov5s", "l1c1hcmk", "leux5m59", "lw8audd5", "mbj7g6v1", "mi0088eg", "nlp1gb1k", "op23dxig", "ot80gep3", "p4esvzkg", "pb727kvg", "pg5m7phh", "pgdv91vz", "px6py4fl", "q5w3ghvj", "qzgbjdzz", "r6br4dt3", "rishpgae", "s1qm3487", "sxogauy0", "v3ju8jv9", "vha118yy", "vjy9du3z", "vrwqe4da", "wpwzt9j0", "wrahuh7u", "y0d7uk3z", "yq3wii2n", "yt3h0how", "zzc584nm".

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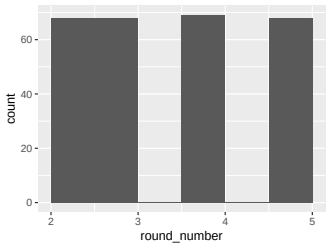
round_number

Indicates the round number of the experiment or activity the participant was engaged in at the time of the page visit.

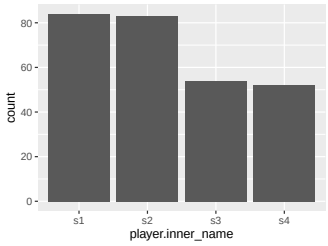
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	4
1st and 3rd quartiles	3; 4
Min. and max.	2; 5



player.inner_name

Internal (abbreviated) treatment name

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	4
Mode	“s1”

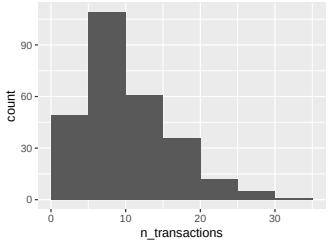


- Observed factor levels: "s1", "s2", "s3", "s4".

n_transactions

The number of transactions completed by the participant up to the point of this event.

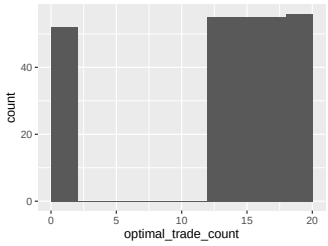
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	28
Median	10
1st and 3rd quartiles	6; 14
Min. and max.	1; 33



optimal_trade_count

Sum of absolute optimal trade signs per round, representing the total number of optimal trades.

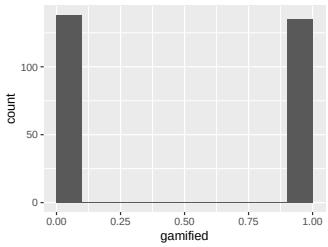
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	5
Median	16
1st and 3rd quartiles	14; 17
Min. and max.	0; 19



gamified

Indicates if a round is gamified (1) or not (0), based on round and block criteria.

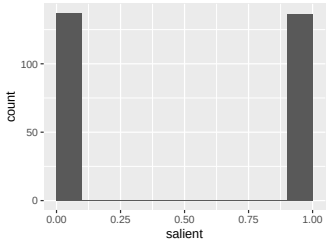
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	2
Median	0
1st and 3rd quartiles	0; 1
Min. and max.	0; 1



salient

Marks a round as salient (1) or non-salient (0), depending on the specific round and block combination.

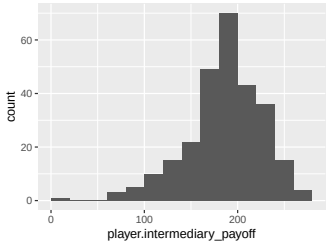
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	2
Median	0
1st and 3rd quartiles	0; 1
Min. and max.	0; 1



player.intermediary_payoff

player's payoff in specific round (it becomes his/her actual payoff if this round is selected for payment)

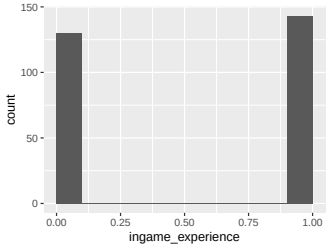
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	39
Median	190
1st and 3rd quartiles	170; 215
Min. and max.	0; 280



ingame_experience

A binary indicator where 1 represents participants who were in specific game blocks ("block 3 (G second)" or "block 4 (G second)") or 0 otherwise

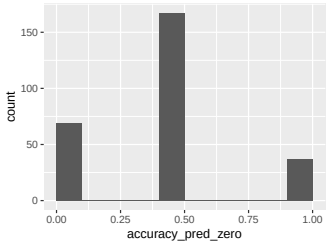
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	2
Median	1
1st and 3rd quartiles	0; 1
Min. and max.	0; 1



accuracy_pred_zero

Participant's average normalized accuracy of first-tick predictions.

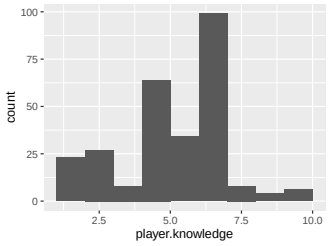
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	3
Median	0.5
1st and 3rd quartiles	0; 0.5
Min. and max.	0; 1



player.knowledge

Self-reported assessment of the player's knowledge in trading

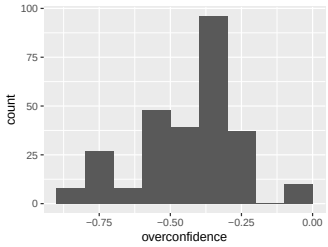
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10
Median	6
1st and 3rd quartiles	5; 7
Min. and max.	1; 10



overconfidence

the difference between a participant's self-rated knowledge and their actual payoff, both normalized to a scale from 0 to 1

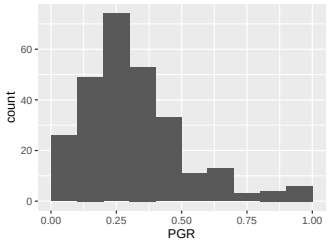
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	29
Median	-0.32
1st and 3rd quartiles	-0.5; -0.3
Min. and max.	-0.9; 0



PGR

The ratio of a participant's realized gains to their total recognized and unrealized gains within a round.

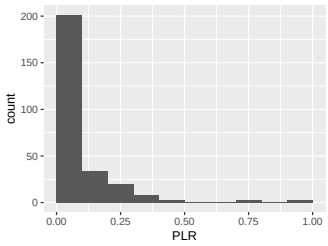
Feature	Result
Variable type	numeric
Number of missing obs.	1 (0.37 %)
Number of unique values	92
Median	0.29
1st and 3rd quartiles	0.2; 0.42
Min. and max.	0; 1



PLR

The ratio of a participant's realized losses to their total recognized and unrealized losses within a round.

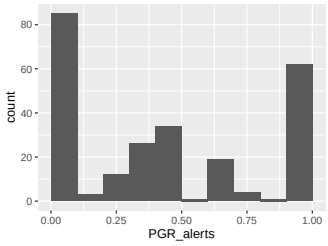
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	75
Median	0.04
1st and 3rd quartiles	0; 0.11
Min. and max.	0; 1



PGR_alerts

The ratio of realized gains to the total of realized and paper gains during ticks where a green or red alert was triggered

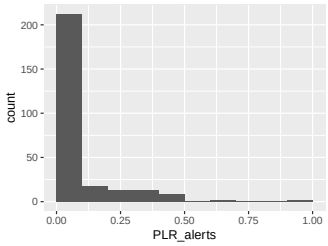
Feature	Result
Variable type	numeric
Number of missing obs.	26 (9.52 %)
Number of unique values	14
Median	0.4
1st and 3rd quartiles	0; 0.92
Min. and max.	0; 1



PLR_alerts

The ratio of realized losses to the total of realized and paper losses during ticks where a green or red alert was triggered

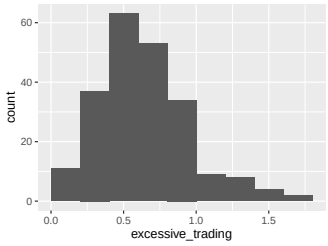
Feature	Result
Variable type	numeric
Number of missing obs.	5 (1.83 %)
Number of unique values	14
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 1



excessive_trading

Ratio of actual to optimal trades, with NaN indicating no optimal trades.

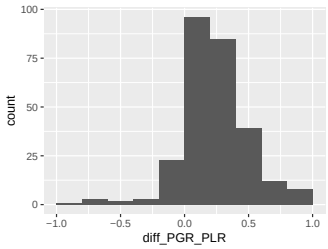
Feature	Result
Variable type	numeric
Number of missing obs.	52 (19.05 %)
Number of unique values	61
Median	0.59
1st and 3rd quartiles	0.43; 0.81
Min. and max.	0.05; 1.71



diff_PGR_PLR

The net difference between a participant's gain ratio and loss ratio.

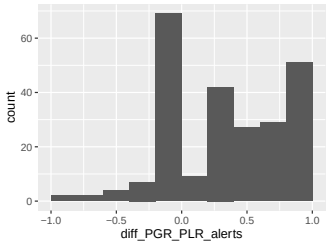
Feature	Result
Variable type	numeric
Number of missing obs.	1 (0.37 %)
Number of unique values	201
Median	0.22
1st and 3rd quartiles	0.1; 0.38
Min. and max.	-0.82; 0.97



diff_PGR_PLR_alerts

The difference between the count of gain-related alerts and loss-related alerts for a participant.

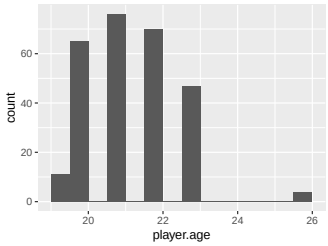
Feature	Result
Variable type	numeric
Number of missing obs.	31 (11.36 %)
Number of unique values	37
Median	0.33
1st and 3rd quartiles	0; 0.75
Min. and max.	-1; 1



player.age

Age of the player.

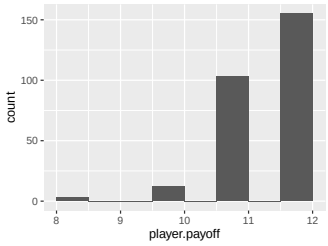
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	6
Median	21
1st and 3rd quartiles	20; 22
Min. and max.	19; 26



player.payoff

Payoff for the player in this round

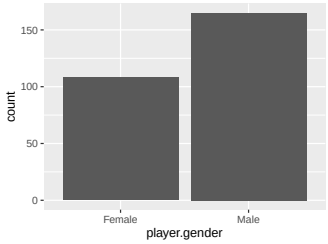
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	12
1st and 3rd quartiles	11; 12
Min. and max.	8; 12



player.gender

Gender of the player.

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



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

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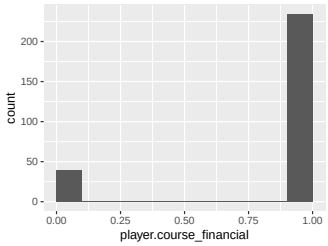
player.course_financial

Did you take any course focused on financial markets

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



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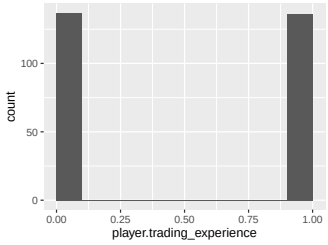
player.trading_experience

Do you have any trading experience?

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



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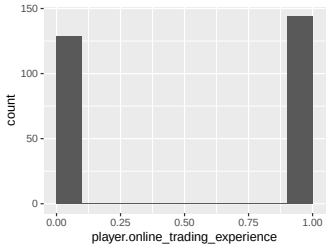
player.online_trading_experience

Do you use mobile trading apps?

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



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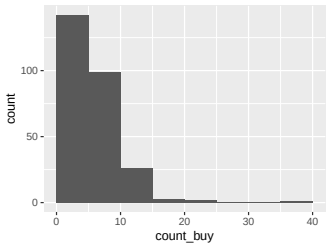
count_buy

The total number of buy trades a participant makes in each round within each specific internal treatment category.

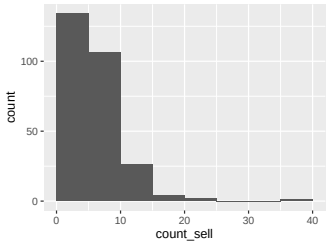
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	21
Median	5
1st and 3rd quartiles	3; 7
Min. and max.	0; 36



count_sell

The total number of sell trades a participant makes in each round within each specific internal treatment category.

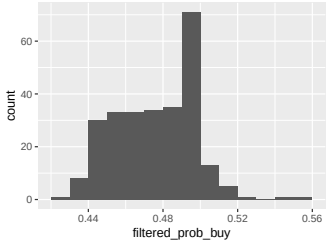
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	21
Median	6
1st and 3rd quartiles	3; 8
Min. and max.	1; 37



filtered_prob_buy

The average Markovian model-based probability of a favorable price movement associated with buy trades for each participant per round.

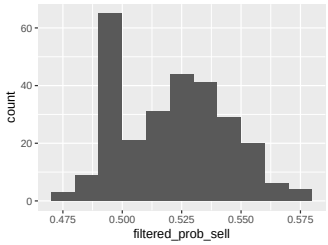
Feature	Result
Variable type	numeric
Number of missing obs.	7 (2.56 %)
Number of unique values	217
Median	0.48
1st and 3rd quartiles	0.46; 0.5
Min. and max.	0.42; 0.56



filtered_prob_sell

The average Markovian model-based probability of a favorable price movement associated with sell trades for each participant per round.

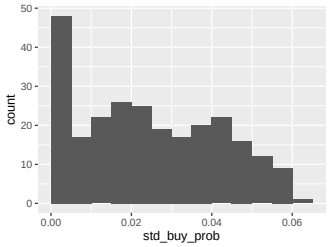
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	219
Median	0.52
1st and 3rd quartiles	0.5; 0.54
Min. and max.	0.47; 0.58



std_buy_prob

Standard deviation of Markovian probabilities associated with buy trades, reflecting the variability in price movement estimates for each participant per round.

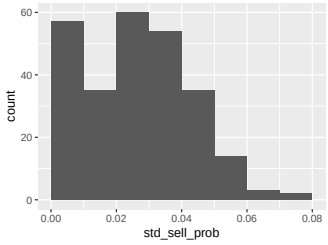
Feature	Result
Variable type	numeric
Number of missing obs.	19 (6.96 %)
Number of unique values	209
Median	0.02
1st and 3rd quartiles	0.01; 0.04
Min. and max.	0; 0.06



std_sell_prob

Standard deviation of Markovian probabilities associated with sell trades, indicating the variability in price movement estimates for each participant per round.

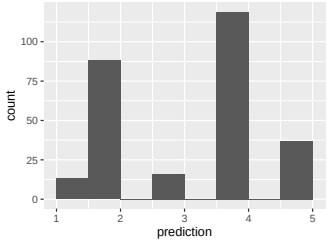
Feature	Result
Variable type	numeric
Number of missing obs.	13 (4.76 %)
Number of unique values	211
Median	0.03
1st and 3rd quartiles	0.01; 0.04
Min. and max.	0; 0.07



prediction

A participant's assessment of the likelihood of the stock price increasing, provided both before trading begins and midway through the trading day, in response to the question "How likely is the stock to go up next?"

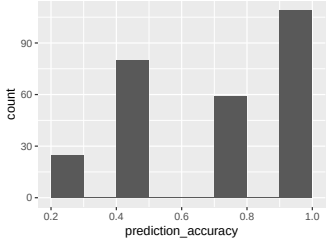
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	5
Median	4
1st and 3rd quartiles	2; 4
Min. and max.	1; 5



prediction_accuracy

Normalized measure of how closely a participant's prediction aligns with the perceived probability.

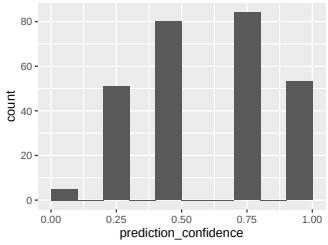
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	4
Median	0.75
1st and 3rd quartiles	0.5; 1
Min. and max.	0.25; 1



prediction_confidence

Normalized value representing a participant's self-reported confidence in their prediction.

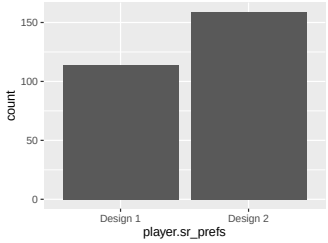
Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	5
Median	0.75
1st and 3rd quartiles	0.5; 0.75
Min. and max.	0; 1



player.sr_prefs

If you could trade again, would you rather trade on a platform with Design #1 or Design #2?

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

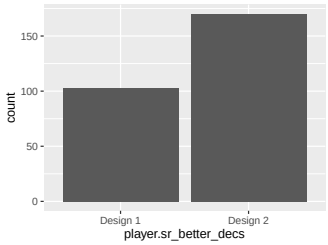


- Observed factor levels: "Design 1", "Design 2".

player.sr_better_decs

If you could trade again, would you expect to make better decisions when the market looks as in Design #1 or #2?

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

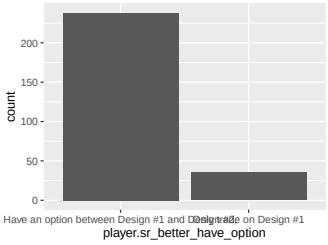


- Observed factor levels: "Design 1", "Design 2".

player.sr_better_have_option

If you could trade again, would you prefer to be given an option between Design #1 and Design #2, or only trade on Design #1

Feature	Result
Variable type	character
Number of missing obs.	0 (0 %)
Number of unique values	2
Mode	“Have an option between Design #1 and Design #2,”



- Observed factor levels: "Have an option between Design #1 and Design #2,", "Only trade on Design #1".

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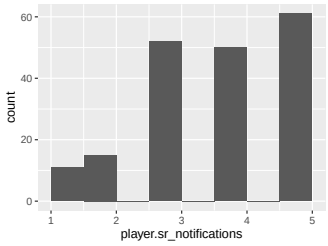
player.sr_notifications

Please rate the following trading app features on a scale from 1 (strongly dislike) to 5 (strongly like): Price notifications

Feature	Result
Variable type	numeric
Number of missing obs.	84 (30.77 %)
Number of unique values	5
Median	4
1st and 3rd quartiles	3; 5
Min. and max.	1; 5



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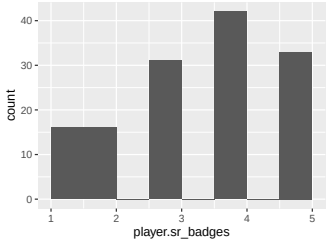
player.sr_badges

Please rate the following trading app features on a scale from 1 (strongly dislike) to 5 (strongly like): Achievement badges

Feature	Result
Variable type	numeric
Number of missing obs.	135 (49.45 %)
Number of unique values	5
Median	4
1st and 3rd quartiles	3; 4
Min. and max.	1; 5



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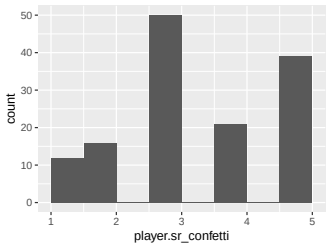
player.sr_confetti

Please rate the following trading app features on a scale from 1 (strongly dislike) to 5 (strongly like): Achievement messages and confetti

Feature	Result
Variable type	numeric
Number of missing obs.	135 (49.45 %)
Number of unique values	5
Median	3
1st and 3rd quartiles	3; 5
Min. and max.	1; 5



Report generation information:

- Created by: Philipp Chapkovski (username: `chapkovski`).

- Report creation time: Tue Nov 21 2023 21:15:44
- Report was run from directory: `/Users/chapkovski`
- dataMaid v1.4.1 [Pkg: 2021-10-08 from CRAN (R 4.2.0)]
- R version 4.2.1 (2022-06-23).
- Platform: aarch64-apple-darwin20 (64-bit)(macOS 14.1).
- Function call: `dataMaid::makeDataReport(data = df, mode = c("summarize", "visualize", "check"), smartNum = FALSE, file = "panel_trader_round_uoft.csv", replace = T, openResult = F, 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 = "panel_trader_round_uoft.csv")`