

Variable Name	Variable Description	Type
<i>person_id</i>	40-character player ID	
<i>assessment</i>	risk level – minimal-risk, low-risk, medium-risk, high-risk	categorical
<i>date</i>	aggregation day	date
<i>date_delta</i>	number of days since last activity, given <i>date</i>	covariate
<i>date_delta_sd</i>	standard deviation of number of days between activities	covariate
<i>age</i>	age of customer at the given <i>date</i>	covariate
<i>seniority</i>	number of days since customer signed up	covariate
<i>title</i>	VIP status – regular, lion cub, lion low, lion high, diamond	categorical
<i>balance_cash_sum</i>	cash balance in account at the end of the day (in Euro)	covariate
<i>bet_midnight_num_ratio*</i>	percentage of bets placed between 12:00am and 4:00am	covariate
<i>result_cash_day_num_ratio*</i>	number of days that the player has a win over the number of active days	covariate
<i>result_cash_num_mean*</i>	average number of wins per active day	covariate
<i>result_cash_num_sd</i>	standard deviation of the number of wins per active day	covariate
<i>result_cash_sum_mean*</i>	average money won per day	covariate
<i>result_cash_sum_sd</i>	standard deviation of the winnings per day	covariate
<i>turnover_cash_day_num_ratio*</i>	the ratio of days with placed bets over the total active days	covariate

Variable Name	Variable Description	Type
<i>turnover_cash_num_beta</i>	gradient coefficient of linear regression with respect to the number of placed bets	covariate
<i>turnover_cash_num_mean*</i>	average number of placed bets per day	covariate
<i>turnover_cash_num_sd</i>	standard deviation of the number of placed bets per day	covariate
<i>turnover_cash_sum_beta</i>	gradient coefficient of linear regression with respect to the total amount of cash placed on bets per day	covariate
<i>turnover_cash_sum_mean*</i>	average of total amount of cash placed on bets per day	covariate
<i>turnover_cash_sum_sd</i>	standard deviation of total amount of cash placed on bets per day	covariate
<i>turnover_cash_casino_live_sum_ratio*</i>	total amount of cash placed on bets in casino live over total amount of cash placed on all bets	covariate
<i>turnover_cash_sports_sum_ratio*</i>	total amount of cash placed on bets in sportsbook over total amount of cash placed on all bets	covariate
<i>turnover_result_cash_sum_beta</i>	gradient coefficient of linear regression with respect to the total amount of money spent per active day (on bets)	covariate
<i>bonus_convert_day_num_ratio*</i>	the number of times a bonus was converted to cash over the total number of active days	covariate
<i>bonus_convert_num_mean*</i>	the average of the number of times a bonus was converted to cash per active day	covariate

Variable Name	Variable Description	Type
<i>bonus_convert_num_sd</i>	the standard deviation of the number of times a bonus was converted to cash per active day	covariate
<i>bonus_convert_sum_mean</i> *	the average of converted bonus per active day	covariate
<i>bonus_convert_sum_sd</i>	the standard deviation of the bonus converted based on active days	covariate
<i>exclusion_day_num_last</i>	the number of exclusions that the player has had up to <i>date</i>	covariate
<i>exclusion_delta</i>	the number of days since last exclusion	covariate
<i>limit_deposit_decrease_day_num_ratio</i> *	number of days with at least one decrease in deposit limit over the total number of active days	covariate
<i>limit_deposit_decrease_num_mean</i> *	the average of the number of decreases in the deposit limit per active day	covariate
<i>limit_deposit_decrease_num_sd</i>	the standard deviation of the number of decreases in the deposit limit per active day	covariate
<i>limit_deposit_increase_day_num_ratio</i>	number of days with at least one increase in deposit limit over the total number of active days	covariate
<i>limit_deposit_increase_num_mean</i> *	the average of the number of increases in the deposit limit per active day	covariate
<i>limit_deposit_increase_num_sd</i>	the standard deviation of the number of increases in the deposit limit per active day	covariate
<i>deposit_approved_day_num_ratio</i> *	number of days with at least one approved deposit over the total number of active days	covariate

Variable Name	Variable Description	Type
<i>deposit_approved_num_beta</i>	gradient coefficient of linear regression with respect to the number of approved deposits	covariate
<i>deposit_approved_num_mean*</i>	the average of the number of approved deposits per active day	covariate
<i>deposit_approved_num_sd</i>	the standard deviation of the number of approved deposits per active day	covariate
<i>deposit_approved_sum_beta</i>	gradient coefficient of linear regression with respect to the total amount of money in approved deposits	covariate
<i>deposit_approved_sum_mean*</i>	the average of the total amount of money in approved deposits per active day	covariate
<i>deposit_approved_sum_sd</i>	the standard deviation of the total amount of money in approved deposits per active day	covariate
<i>deposit_denied_day_num_ratio*</i>	number of days with at least one denied deposit over the total number of active days	covariate
<i>deposit_denied_num_mean*</i>	the average of the number of denied deposits per active day	covariate
<i>deposit_denied_num_sd</i>	the standard deviation of the number of denied deposits per active day	covariate
<i>deposit_denied_sum_mean*</i>	the average of the total amount of money in denied deposits per active day	covariate
<i>deposit_denied_sum_sd</i>	the standard deviation of the total amount of money in denied deposits per active day	covariate

Variable Name	Variable Description	Type
<i>withdrawal_approved_day_num_ratio*</i>	number of days with at least one approved withdrawal over the total number of active days	covariate
<i>withdrawal_approved_num_mean*</i>	the average of the number of approved withdrawals per active day	covariate
<i>withdrawal_approved_num_sd</i>	the standard deviation of the number of approved withdrawals per active day	covariate
<i>withdrawal_approved_sum_mean*</i>	the average of the total amount of money in approved withdrawals per active day	covariate
<i>withdrawal_approved_sum_sd</i>	the standard deviation of the total amount of money in approved withdrawals per active day	covariate
<i>withdrawal_canceled_day_num_ratio*</i>	number of days with at least one cancelled withdrawal over the total number of active days	covariate
<i>withdrawal_canceled_num_mean*</i>	the average of the number of cancelled withdrawals per active day	covariate
<i>withdrawal_canceled_num_sd</i>	the standard deviation of the number of cancelled withdrawals per active day	covariate
<i>withdrawal_canceled_sum_mean*</i>	the average of the total amount of money in cancelled withdrawals per active day	covariate
<i>withdrawal_canceled_sum_sd</i>	the standard deviation of the total amount of money in cancelled withdrawals per active day	covariate

Variable Name	Variable Description	Type
<i>withdrawal_deposit_approved_sum_ratio*</i>	sum of the total withdrawals divided by the total deposits over a specific time frame	covariate
<i>withdrawal_approved_result_cash_sum_ratio*</i>	withdrawal approved sum divided by result sum over a specific time frame	covariate
<i>session_day_num*</i>	number of days with sessions	covariate
<i>session_num_beta</i>	gradient coefficient of linear regression with respect to the number of sessions per active day	covariate
<i>session_num_mean*</i>	average of the number of sessions per active day	covariate
<i>session_num_sd</i>	the standard deviation of the number of sessions per active day	covariate
<i>session_sum_beta</i>	gradient coefficient of linear regression with respect to the total session time per day	covariate
<i>session_sum_mean*</i>	average of session time per active day (in seconds)	covariate
<i>session_sum_sd</i>	the standard deviation of the total daily session time per active day	covariate
<i>session_desktop_num_ratio*</i>	the number of sessions on a desktop over the total number of sessions	covariate
<i>brand_num</i>	number of brands where the player has at least one account	covariate
<i>gender</i>	gender – male, female, unknown	categorical
<i>player_num</i>	total number of accounts the user opened	covariate
<i>country_code</i>	country set for the player's primary account	categorical