Data dictionary

Column Name	Data Type	Dataset	Description
			Observation date in YYYYMMDD format, often used to track stock or
date	int64	hackathon_sample	portfolio changes over time.
			Stock return at the end of the month, commonly used to measure
ret_eom	int64	hackathon_sample	performance.
_			Permanent identifier for stocks in the database, useful for tracking across
permno	int64	hackathon_sample	time periods.
			Code representing the share type, distinguishing between different equity
shrcd	int64	hackathon_sample	classes.
exchcd	int64	hackathon_sample	Stock exchange code, identifying the market where the stock is traded.
mspread	float64	hackathon_sample	Median bid-ask spread, a measure of market liquidity.
year	int64	hackathon_sample	Year corresponding to the observation date.
month	int64	hackathon_sample	Month corresponding to the observation date.
		Ì	
size_port	object	hackathon_sample	Portfolio size classification, often based on market capitalization.
rf	float64	hackathon_sample	Risk-free rate, used as a benchmark for return calculations.
stock_exret	float64	hackathon_sample	Stock excess return over the risk-free rate.
stock_ticker	object	hackathon_sample	Unique ticker symbol for the stock.
		·	Committee on Uniform Securities Identification Procedures (CUSIP)
cusip	object	hackathon_sample	identifier.
comp_name	object	hackathon_sample	Company name associated with the stock.
eps_medest	float64	hackathon_sample	Median analyst estimate for earnings per share (EPS).
eps_meanest	float64	hackathon_sample	Mean analyst estimate for earnings per share (EPS).
		·	
eps_stdevest	float64	hackathon_sample	Standard deviation of analyst EPS estimates, indicating dispersion.
eps_actual	float64	hackathon_sample	Actual reported earnings per share (EPS).
prc	float64	hackathon_sample	Stock price, used for valuation and return calculations.
market_equity	float64	hackathon_sample	Market Equity
div12m_me	float64	hackathon_sample	Dividend yield
chcsho_12m	float64	hackathon_sample	Change in shares outstanding over the past 12 months.
eqnpo_12m	float64	hackathon_sample	Net equity payout
ret_1_0	float64	hackathon_sample	Return over the past 1 month.
ret_3_1	float64	hackathon_sample	Return over the past 3 months.
ret_6_1	float64	hackathon_sample	Return over the past 6 months.
ret_9_1	float64	hackathon_sample	Return over the past 9 months.
ret_12_1	float64	hackathon_sample	Return over the past 12 months.
		·	
ret_12_7	float64	hackathon_sample	Return over the past 12 months excluding the most recent 6 months.
		·	-
ret_60_12	float64	hackathon_sample	Return over the past 60 months excluding the most recent 12 months.
seas_1_1an	float64	hackathon_sample	Seasonal return over 1 month, annualized.
seas_1_1na	float64	hackathon_sample	Seasonal return over 1 month, non-annualized.
seas_2_5an	float64	hackathon_sample	Seasonal return over 2-5 months, annualized.
seas_2_5na	float64	hackathon_sample	Seasonal return over 2-5 months, non-annualized.
at_gr1	float64	hackathon_sample	Asset Growth
sale_gr1	float64	hackathon_sample	Sales growth (1 year)
capx_gr1	float64	hackathon_sample	CAPEX growth (1 year)
inv_gr1	float64	hackathon_sample	Inventory growth
debt_gr3	float64	hackathon_sample	Growth in book debt (3 years)
	outo -	aonamon_bampic	10.0 mm mook door (o jouro)

F	F	T	L
sale_gr3	float64	hackathon_sample	Sales growth over the past 3 years.
capx_gr3	float64	hackathon_sample	CAPEX growth (3 years)
inv_gr1a	float64	hackathon_sample	Inventory change
lti_gr1a	float64	hackathon_sample	Change in long-term investments
sti_gr1a	float64	hackathon_sample	Change in short-term investments.
coa_gr1a	float64	hackathon_sample	Change in current operating assets
col_gr1a	float64	hackathon_sample	Change in current operating liabilities
cowc_gr1a	float64	hackathon_sample	Change in current operating working capital
ncoa_gr1a	float64	hackathon_sample	Change in noncurrent operating assets
ncol_gr1a	float64	hackathon_sample	Change in noncurrent operating liabilities
nncoa_gr1a	float64	hackathon_sample	Change in net noncurrent operating assets
fnl_gr1a	float64	hackathon_sample	Change in financial liabilities
nfna_gr1a	float64	hackathon_sample	Change in net financial assets
tax_gr1a	float64	hackathon_sample	Tax expense surprise
be_gr1a	float64	hackathon_sample	Change in common equity
ebit_sale	float64	hackathon_sample	Profit margin
gp_at	float64	hackathon_sample	Gross profits-to-assets
cop_at	float64	hackathon_sample	Cash-based operating profits-to-book assets
ope_be	float64	hackathon_sample	Operating profitability to book equity ratio.
ni_be	float64	hackathon_sample	Return on equity
ebit_bev	float64	hackathon_sample	Return on net operating assets
netis_at	float64	hackathon_sample	Net total issuance
eqnetis_at	float64	hackathon_sample	Net equity issuance
dbnetis_at	float64	hackathon_sample	Net debt issuance
oaccruals_at	float64	hackathon_sample	Operating accruals
oaccruals_ni	float64	hackathon_sample	Percent operating accruals
_			1 0
taccruals_at	float64	hackathon_sample	Total accruals scaled by total assets, a measure of earnings quality.
_			Total accruals scaled by net income, an indicator of the relationship
taccruals_ni	float64	hackathon_sample	between accruals and earnings.
noa_at	float64	hackathon_sample	Net operating assets
_			Operating expenses scaled by total assets, reflecting operational
opex_at	float64	hackathon_sample	efficiency.
at_turnover	float64	hackathon_sample	Capital turnover
sale_bev	float64	hackathon_sample	Sales to enterprise value ratio.
rd_sale	float64	hackathon_sample	Research and development (R&D) expenditure to sales ratio.
cash_at	float64	hackathon_sample	Cash-to-assets
sale_emp_gr1	float64	hackathon_sample	Sales growth per employee over the past year, an indicator of productivity.
emp_gr1	float64	hackathon_sample	Hiring rate
ni_inc8q	float64	hackathon_sample	Number of consecutive quarters with earnings increases
noa_gr1a	float64	hackathon_sample	Change in net operating assets
1104_91±4	110010-	naokation_sampte	Change in not operating assets
ppeinv_gr1a	float64	hackathon_sample	Change in property, plant, and equipment investments over the past year.
lnoa_gr1a	float64	hackathon_sample	Change in long-term net operating assets
capx_gr2	float64	hackathon_sample	CAPEX growth (2 years)
saleq_gr1	float64	hackathon_sample	Quarterly sales growth.
	float64	hackathon_sample	Quarterly return on equity
niq_be			
niq_at	float64	hackathon_sample	Quarterly return on assets Change in quarterly return on equity
niq_be_chg1	float64	hackathon_sample	Change in quarterly return on equity
niq_at_chg1	float64	hackathon_sample	Change in quarterly net income scaled by total assets.

			Research and development (R&D) expenditure scaled by total assets over
rd5_at	float64	hackathon_sample	5 years.
dsale_dinv	float64	hackathon_sample	Change sales minus change inventory
dsale_drec	float64	hackathon_sample	Change sales minus change receivables
dgp_dsale	float64	hackathon_sample	Change gross margin minus change sales
dsale_dsga	float64	hackathon_sample	Change sales minus change SG&A
saleq_su	float64	hackathon_sample	Standardized unexpected quarterly sales.
niq_su	float64	hackathon_sample	Standardized earnings surprise
capex_abn	float64	hackathon_sample	Abnormal corporate investment
op_atl1	float64	hackathon_sample	Operating profitability scaled by lagged total assets.
gp_atl1	float64	hackathon_sample	Gross profits-to-lagged assets
ope_bel1	float64	hackathon_sample	Lagged operating profitability to book equity ratio.
cop_atl1	float64	hackathon_sample	Cash-based operating profitability scaled by lagged total assets.
pi_nix	float64	hackathon_sample	Profitability index based on net income.
ocf_at	float64	hackathon_sample	Operating cash flow to assets
op_at	float64	hackathon_sample	Operating profitability scaled by total assets.
ocf_at_chg1	float64	hackathon_sample	Change in operating cash flow to assets
at_be	float64	hackathon_sample	Book leverage
ocfq_saleq_std	float64	hackathon_sample	Standard deviation of operating cash flow to sales ratio over time.
tangibility	float64	hackathon_sample	Asset tangibility
earnings_variability	float64	hackathon_sample	Earnings variability
aliq_at	float64	hackathon_sample	Liquidity of book assets
f_score	float64	hackathon_sample	Piotroski F-score
o_score	float64	hackathon_sample	Ohlson O-score
z_score	float64	hackathon_sample	Altman Z-score
intrinsic_value	float64	hackathon_sample	Intrinsic value-to-market
kz_index	float64	hackathon_sample	Kaplan-Zingales index
ni_ar1	float64	hackathon_sample	Earnings persistence
ni_ivol	float64	hackathon_sample	Earnings volatility
at_me	float64	hackathon_sample	Assets-to-market
be_me	float64	hackathon_sample	Book-to-market equity
debt_me	float64	hackathon_sample	Debt-to-market
netdebt_me	float64	hackathon_sample	Net debt-to-price
sale_me	float64	hackathon_sample	Sales scaled by market equity, a valuation measure.
ni_me	float64	hackathon_sample	Earnings-to-price
ocf_me	float64	hackathon_sample	Operating cash flow scaled by market equity.
fcf_me	float64	hackathon_sample	Free cash flow-to-price
eqpo_me	float64	hackathon_sample	Payout yield
eqnpo_me	float64	hackathon_sample	Net payout yield
rd_me	float64	hackathon_sample	Research and development (R&D) expenditure scaled by market equity.
bev_mev	float64	hackathon_sample	Book-to-market enterprise value
ebitda_mev	float64	hackathon_sample	EBITDA-to-market enterprise value
aliq_mat	float64	hackathon_sample	Liquidity of market assets
eq_dur	float64	hackathon_sample	Equity duration
beta_60m	float64	· ·	Market Beta
nera_oom	แบสเอ4	hackathon_sample	ויומו אבנ טיפנמ
resff3_12_1	float64	hackathon_sample	Residuals from the Fama-French 3-factor model over the past 12 months.
resff3_6_1	float64	hackathon_sample	Residuals from the Fama-French 3-factor model over the past 6 months.

mionricing mamt	flootC4	haakathan aamala	Migneliaing factors Managament
mispricing_mgmt	float64	hackathon_sample	Mispricing factor: Management
mispricing_perf	float64	hackathon_sample	Mispricing factor: Performance
ivol_capm_21d	float64	hackathon_sample	Idiosyncratic volatility from the CAPM (21 days)
iskew_capm_21d	float64	hackathon_sample	Idiosyncratic skewness from the CAPM
coskew_21d	float64	hackathon_sample	Coskewness
beta_dimson_21d	float64	hackathon_sample	Dimson beta
ivol_ff3_21d	float64	hackathon_sample	Idiosyncratic volatility from the Fama-French 3-factor model
iskew_ff3_21d	float64	hackathon_sample	Idiosyncratic skewness from the Fama-French 3-factor model
ivol_hxz4_21d	float64	hackathon_sample	Idiosyncratic volatility from the q-factor model
iskew_hxz4_21d	float64	hackathon_sample	Idiosyncratic skewness from the q-factor model
rmax5_21d	float64	hackathon_sample	Maximum daily return over the past 5 days.
rmax1_21d	float64	hackathon_sample	Maximum single-day return over the past 21 days.
rvol_21d	float64	hackathon_sample	Return volatility over the past 21 days.
rskew_21d	float64	hackathon_sample	Return skewness over the past 21 days.
zero_trades_21d	float64	hackathon_sample	Number of zero trades with turnover as tiebreaker (1 month)
dolvol_126d	float64	hackathon_sample	Dollar trading volume
dolvol_var_126d	float64	hackathon_sample	Coefficient of variation for dollar trading volume
turnover_126d	float64	hackathon_sample	Share turnover
turnover_var_126d	float64	hackathon_sample	Coefficient of variation for share turnover
zero_trades_126d	float64	hackathon_sample	Number of zero trades with turnover as tiebreaker (6 months)
zero_trades_252d	float64	hackathon_sample	Number of zero trades with turnover as tiebreaker (12 months)
ami_126d	float64	hackathon_sample	Amihud Measure
ivol_capm_252d	float64	hackathon_sample	Idiosyncratic volatility from the CAPM (252 days)
prc_highprc_252d	float64	hackathon_sample	Ratio of current price to 252-day high price.
betadown_252d	float64	hackathon_sample	Downside beta
bidaskhl_21d	float64	hackathon_sample	The high-low bid-ask spread
corr_1260d	float64	hackathon_sample	Market correlation
betabab_1260d	float64	hackathon_sample	Frazzini-Pedersen market beta
rmax5_rvol_21d	float64	hackathon_sample	Ratio of maximum return to volatility over the past 21 days.
age	int64	hackathon_sample	Firm age
qmj	float64	hackathon_sample	Quality minus junk (QMJ) factor, a measure of firm quality.
			Profitability aspect of the QMJ factor, including metrics like return on
qmj_prof	float64	hackathon_sample	assets or net income margin.
		·	Growth-related aspect of the QMJ factor, indicating trends in revenue or
qmj_growth	float64	hackathon_sample	earnings expansion.
, ,=0			Safety-related aspect of the QMJ factor, focusing on financial stability,
qmj_safety	float64	hackathon_sample	low leverage, and stable cash flows.
year	int64	eps_prediction_data	Year corresponding to the observation date.
month	int64	eps_prediction_data	Month corresponding to the observation date.
		[Observation date in YYYYMMDD format, often used to track stock or
date	int64	eps_prediction_data	portfolio changes over time.
			Permanent identifier for stocks in the database, useful for tracking across
permno	int64	eps_prediction_data	time periods.
eps_actual	float64	eps_prediction_data	Earnings per share realized in the period (EPS) .
Estimate	float64	eps_prediction_data	Earnings per share realized in the period (EPS) . Earnings per share estimation from the analyst (EPS) .
stock_exret	float64	eps_prediction_data	Stock exchange return from risk free rate.
Price	float64	eps_prediction_data	Share price.
rf	float64	eps_prediction_data	Random forest predicion for eps