

Objectives

Main objective is to understand the relationship between global markets and the S&P 500 returns, and to ascertain the crucial factors that impact market performance.

Importance

 Determine the possible effects of \ global economic trends and events on the U.S. economy.

• Examining the correlation between U.S. and foreign markets can offer valuable insights for making investment decisions, establishing trade policies, and developing economic strategies.

 This research brings insights into the interconnectivity of global economic forces and their potential, impact on US markets.

Findings

Weak relationship between the U.S. Market & the foreign market portfolio

• R-squared value is 0.022, indicating weak prediction power.

 T-statistic of the Independent variable is significant at an absolute value of more than 1.96.

 Model is weak since most the variation cannot be explained but the independent variable is statistically insignificant.



Correlation between Foreign Markets & the U.S. Market?

PROFIT

-N	ea	ative Ou	it of San	nple Red	aression
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	Year	OOS_Pred_Mean	OOS_Error_Mean	OOS_Pred_OLS	OOS_Error_OLS
0	2016	NaN	NaN	NaN	NaN
1	2016	NaN	NaN	NaN	NaN
2	2016	NaN	NaN	NaN	NaN
3	2016	NaN	NaN	NaN	NaN
4	2016	NaN	NaN	NaN	NaN
1506	2021	0.067490	1.152510	-0.111518	1.331518
1507	2021	0.068255	-0.338255	-0.034961	-0.235039
1508	2021	0.068031	-0.008031	-0.057809	0.117809
1509	2021	0.068025	-0.218025	0.147375	-0.297375
1510	2021	0.067881	-0.377881	0.130126	-0.440126

Relationship between the U.S. Market and specific regions

with the US.

39.37



Asia region has the highest correlation

 The low R-squared value of 0.023 indicates limited explanatory power of the independent variable over the dependent variable. • The Independent variable is

statistically significant as indicated by its

T-statistic, making it a decent predictor.

• The results from the study shows us that **Foreign** \setminus markets cannot help predict US market returns. Potential reasonings: Strength and reliability of the US Dollar, technological differences biases foreign investors towards US denominated industries.

• "Market's size justifying a higher investment mode," (Calof & Beamish, 1995) external environments encourage industry front-runners to consolidate in the market with largest market cap, the USA.

• Further studies: Identification of certain industries that foreign markets fall short in compared to the S&P, whether eliminating these industries can create a better prediction.

Methodology

• A Foreign market portfolio is constructed using four regional ETFs

country in the ETF with respect to its weight, using a dataset from January

return approach to world portfolios. • To ensure reliability, an out-ofsample regression is conducted on

