



Evaluating the Stock Market on Externalities using Machine Learning

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Problem Statement & Dataset

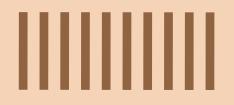
Two primary questions:

- 1. Do external factors affect the stock market? If so, how much is performance affected?
- 2. Are stock prices an indicator of the socioeconomic landscape?

Data used:

- 1. Global Market Indices
- 2. Consumer Price Index
- 3. Environmental Consumer Price Index
- 4. Environmental Policy Stringency Index
- 5. Global Supply Chain Pressure Index



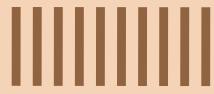




Challenges

- Finding long-standing, reliable measurements for the dataset
- Maintaining consistent features between every dataset
- Finding which features can be used for model

Country C	IMF Count Country	Indicator	Series Nar	197001	197002	197003	197004	197005	197006	197007	197008	197009	197010	197011	197012	197101	197102
ALB	914 Albania	Index	Official Core Consumer Price Index														
AUT	122 Austria	Index	Official Co	21.1	21.2	21.3	21.4	21.5	21.5	21.5	21.7	21.8	21.9	21.9	22	22.1	22.2
BEL	124 Belgium	Index	Official Core Consumer Price Index														
BGR	918 Bulgaria	Index	Official Core Consumer Price Index														
BLR	913 Belarus	Index	Official Core Consumer Price Index														
BRA	223 Brazil	Index	Official Core Consumer Price Index														
CAN	156 Canada	Index	Official Co	17.2	17.2	17.2	17.2	17.3	17.3	17.4	17.4	17.4	17.4	17.5	17.4	17.5	17.5
CHE	146 Switzerlar	Index	Official Co	32.7	32.7	32.8	32.9	33.2	33.3	33.4	33.4	33.6	33.7	34.1	34.3	34.4	34.5
CHL	228 Chile	Index	Official Core Consumer Price Index														
CHN	924 China	Index	Official Core Consumer Price Index														
COL	233 Colombia	Index	Official Core Consumer Price Index														
CRI	238 Costa Rica	Index	Official Core Consumer Price Index														
CYP	423 Cyprus	Index	Official Core Consumer Price Index														
CZE	935 Czech Rep	Index	Official Core Consumer Price Index														
DEU	134 Germany	Index	Official Co	30	30.1	30.2	30.4	30.4	30.4	30.4	30.4	30.5	30.6	30.7	31	31.3	31.5
DNK	128 Denmark	Index	Official Co	13.8	13.9	14	14	14.2	14.2	14.4	14.5	14.6	14.6	14.7	14.7	14.7	14.7
DOM	243 Dominica	Index	Official Core Consumer Price Index														



Date	Country	CCPI
########	Albania	90.2
#######	Austria	89
########	Belgium	91.3
########	Bulgaria	96.2
########	Belarus	96.1
########	Brazil	5522619
########	Canada	91.5
########	Switzerlan	101.3
#######	Chile	87.4
########	China	84.4
########	Colombia	85
########	Costa Rica	80.2
########	Cyprus	94.8
########	Czech Rep	96.4
#######	Germany	93.1
#######	Denmark	91.7
#######	Dominicar	72.3





Solution & Findings

- Still in-progress of
 - developing model to properly answer problem statement
 - Adjusting data to be more representative









Novelties & Drawbacks

- No research found on the problem statement
- Similar findings include:
 - Relationship between economy and stock market





Thank you!



