World Happiness Index

Code

Context

This Dataset focuses on

- Global focus on well-being beyond economics.
- Examines factors like GDP, social support, and health.
- Compares Life satisfaction across different countries

The dataset is based of a survey of every country accessible to answer with a total of 150 rows.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Country name	Regional indicator	Ladder score	Standard error of lad	upperwhisker	lowerwhisker	Logged GDP per ca	Social support	Healthy life ex	Freedom	Generosit	Perceptio	Ladder sc	Explained	Explained	Explained	Explained	Explained	Explained	Dystopia + resid
2	Finland	Western Europe	7.842	0.032	7.904	7.78	10.775	0.954	72	0.949	-0.098	0.186	2.43	1.446	1.106	0.741	0.691	0.124	0.481	3.253
3	Denmark	Western Europe	7.62	0.035	7.687	7.552	10.933	0.954	72.7	0.946	0.03	0.179	2.43	1.502	1.108	0.763	0.686	0.208	0.485	2.868
4	Switzerland	Western Europe	7.571	0.036	7.643	7.5	11.117	0.942	74.4	0.919	0.025	0.292	2.43	1.566	1.079	0.816	0.653	0.204	0.413	2.839
5	Iceland	Western Europe	7.554	0.059	7.67	7.438	10.878	0.983	73	0.955	0.16	0.673	2.43	1.482	1.172	0.772	0.698	0.293	0.17	2.967
6	Netherlands	Western Europe	7.464	0.027	7.518	7.41	10.932	0.942	72.4	0.913	0.175	0.338	2.43	1.501	1.079	0.753	0.647	0.302	0.384	2.798
7	Norway	Western Europe	7.392	0.035	7.462	7.323	11.053	0.954	73.3	0.96	0.093	0.27	2.43	1.543	1.108	0.782	0.703	0.249	0.427	2.58
8	Sweden	Western Europe	7.363	0.036	7.433	7.293	10.867	0.934	72.7	0.945	0.086	0.237	2.43	1.478	1.062	0.763	0.685	0.244	0.448	2.683
9	Luxembourg	Western Europe	7.324	0.037	7.396	7.252	11.647	0.908	72.6	0.907	-0.034	0.386	2.43	1.751	1.003	0.76	0.639	0.166	0.353	2.653
10	New Zealand	North America and ANZ	7.277	0.04	7.355	7.198	10.643	0.948	73.4	0.929	-0.134	0.242	2.43	1.4	1.094	0.785	0.665	0.276	0.445	2.612
11	Austria	Western Europe	7.268	0.036	7.337	7.198	10.906	0.934	73.3	0.908	0.042	0.481	2.43	1.492	1.062	0.782	0.64	0.215	0.292	2.784
12	Australia	North America and ANZ	7.183	0.041	7.265	7.102	10.796	0.94	73.9	0.914	0.159	0.442	2.43	1.453	1.076	0.801	0.647	0.291	0.317	2.598
13	Israel	Middle East and North Afri	7.157	0.034	7.224	7.09	10.575	0.939	73.503	0.8	0.031	0.753	2.43	1.376	1.074	0.788	0.509	0.208	0.119	3.083
14	Germany	Western Europe	7.155	0.04	7.232	7.077	10.873	0.903	72.5	0.875	0.011	0.46	2.43	1.48	0.993	0.757	0.6	0.195	0.306	2.824
15	Canada	North America and ANZ	7.103	0.042	7.185	7.021	10.776	0.926	73.8	0.915	0.089	0.415	2.43	1.447	1.044	0.798	0.648	0.246	0.335	2.585
16	Ireland	Western Europe	7.085	0.04	7.164	7.006	11.342	0.947	72.4	0.879	0.077	0.363	2.43	1.644	1.092	0.753	0.606	0.238	0.367	2.384
17	Costa Rica	Latin America and Caribbe	7.069	0.056	7.179	6.96	9.88	0.891	71.4	0.934	-0.126	0.809	2.43	1.134	0.966	0.722	0.673	0.105	0.083	3.387
18	United Kingdom	Western Europe	7.064	0.038	7.138	6.99	10.707	0.934	72.5	0.859	0.233	0.459	2.43	1.423	1.062	0.757	0.58	0.34	0.306	2.596
19	Czech Republic	Central and Eastern Europe	6.965	0.049	7.062	6.868	10.556	0.947	70.807	0.858	-0.208	0.868	2.43	1.37	1.09	0.703	0.58	0.052	0.046	3.124
20	United States	North America and ANZ	6.951	0.049	7.047	6.856	11.023	0.92	68.2	0.837	0.098	0.698	2.43	1.533	1.03	0.621	0.554	0.252	0.154	2.807
21	Belgium	Western Europe	6.834	0.034	6.901	6.767	10.823	0.906	72.199	0.783	-0.153	0.646	2.43	1.463	0.998	0.747	0.489	0.088	0.187	2.862
22	France	Western Europe	6.69	0.037	6.762	6.618	10.704	0.942	74	0.822	-0.147	0.571	2.43	1.421	1.081	0.804	0.536	0.092	0.235	2.521
23	Bahrain	Middle East and North Afri	6.647	0.068	6.779	6.514	10.669	0.862	69.495	0.925	0.089	0.722	2.43	1.409	0.895	0.662	0.661	0.246	0.139	2.631
24	Malta	Western Europe	6.602	0.044	6.688	6.516	10.674	0.931	72.2	0.927	0.133	0.653	2.43	1.411	1.055	0.747	0.664	0.275	0.183	2.268
25	Taiwan Province of China	East Asia	6.584	0.038	6.659	6.51	10.871	0.898	69.6	0.784	-0.07	0.721	2.43	1.48	0.982	0.665	0.49	0.142	0.139	2.687
26	United Arab Emirates	Middle East and North Afri	6.561	0.039	6.637	6.484	11.085	0.844	67.333	0.932	0.074	0.589	2.43	1.555	0.86	0.594	0.67	0.236	0.223	2.422
27	Saudi Arabia	Middle East and North Afri	6.494	0.056	6.604	6.384	10.743	0.891	66.603	0.877	-0.149	0.684	2.43	1.435	0.964	0.571	0.603	0.09	0.163	2.668
28	Spain	Western Europe	6.491	0.042	6.574	6.408	10.571	0.932	74.7	0.761	-0.081	0.745	2.43	1.375	1.057	0.826	0.462	0.135	0.124	2.513
29	Italy	Western Europe	6.483	0.045	6.572	6.395	10.623	0.88	73.8	0.693	-0.084	0.866	2.43	1.393	0.94	0.798	0.379	0.133	0.047	2.794
30	Slovenia	Central and Eastern Europe	6.461	0.043	6.546	6.376	10.529	0.948	71.4	0.949	-0.101	0.806	2.43	1.36	1.093	0.722	0.69	0.122	0.085	2.388
31	Guatemala	Latin America and Caribbe	6.435	0.073	6.577	6.292	9.053	0.813	64.958	0.906	-0.038	0.775	2.43	0.845	0.79	0.519	0.638	0.163	0.105	3.375
32	Uruguay	Latin America and Caribbe	6.431	0.046	6.521	6.341	9.966	0.925	69.1	0.896	-0.092	0.59	2.43	1.164	1.042	0.649	0.625	0.128	0.223	2.6
33	Singapore	Southeast Asia	6.377	0.043	6.46	6.293	11.488	0.915	76.953	0.927	-0.018	0.082	2.43	1.695	1.019	0.897	0.664	0.176	0.547	1.379

Attributes to Look At!

- Logged Gross domestic product (GDP) per Capita:

  - GDP is the standard measure of the value added created through the production of goods and services in a country during a certain period (This data set is based off the year 2021).

  - The natural log of the country's GDP per capita.

- Life Ladder

  - The happiness score index, based on a survey asking individuals to rate their current life on a scale of 0-10

- Social Support

  - The level of social support in the country, based on questions such as "If you were in trouble, do you have relatives, or friends you can count on to help you whenever you need them, or not?"

- Perceptions of Corruption

  - The level of perceived corruption in the country, based on the answer to the question, " is corruption widespread throughout the government and business in your country, or not?" If they thing there's no corruption, this value would be 0.
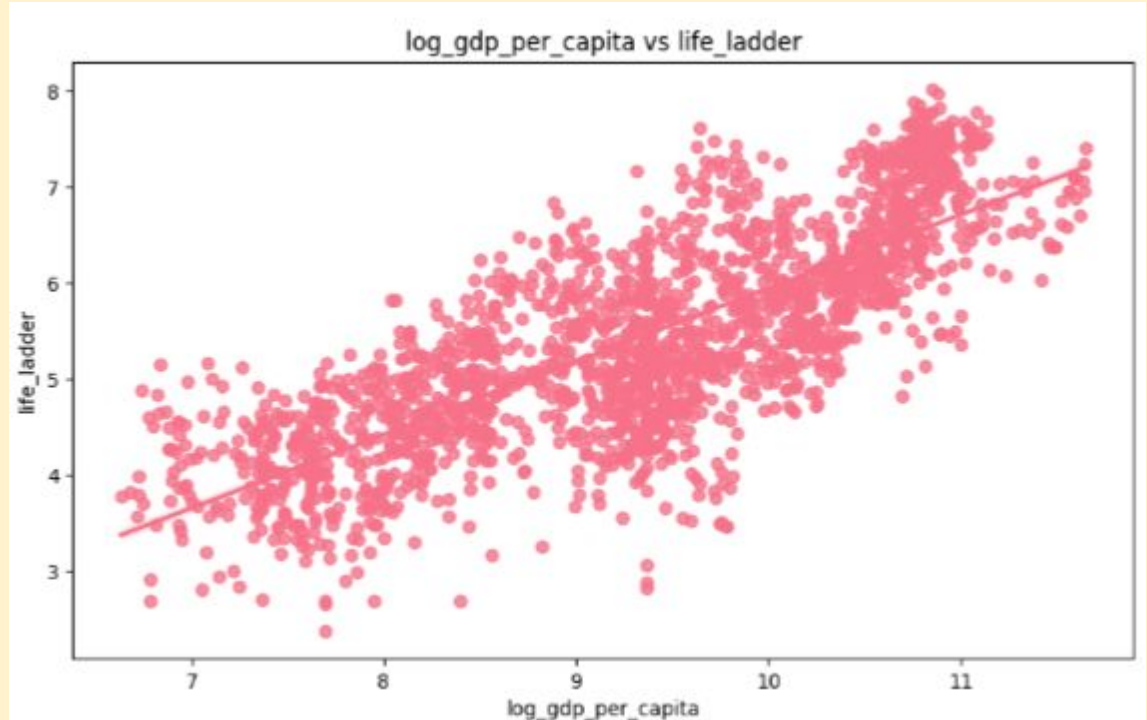
GDP vs Life Ladder

GDP (Gross Domestic Product) = goods per capita
- Food, services, products

Vs

Life Ladder (Happiness Score)
Survey 1-10

More GDP = More Happiness

log_gdp_per_capita vs life_ladder

Happiness vs Perception of Corruption
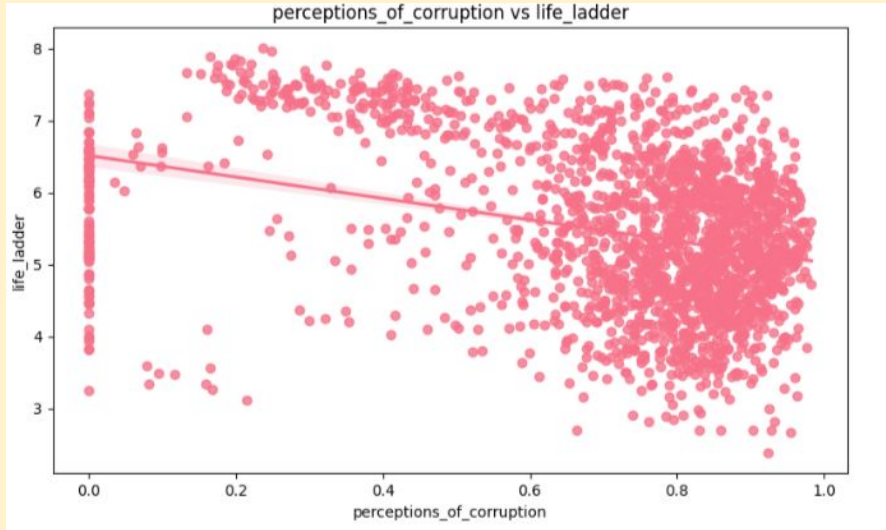

perceptions_of_corruption vs life_ladder

Perceptions of Corruption =
Scale from 0 - 1.0
0 = No Corruption
1 = Yes there is Corruption

"Is corruption widespread throughout the government and businesses in your country, or not?"
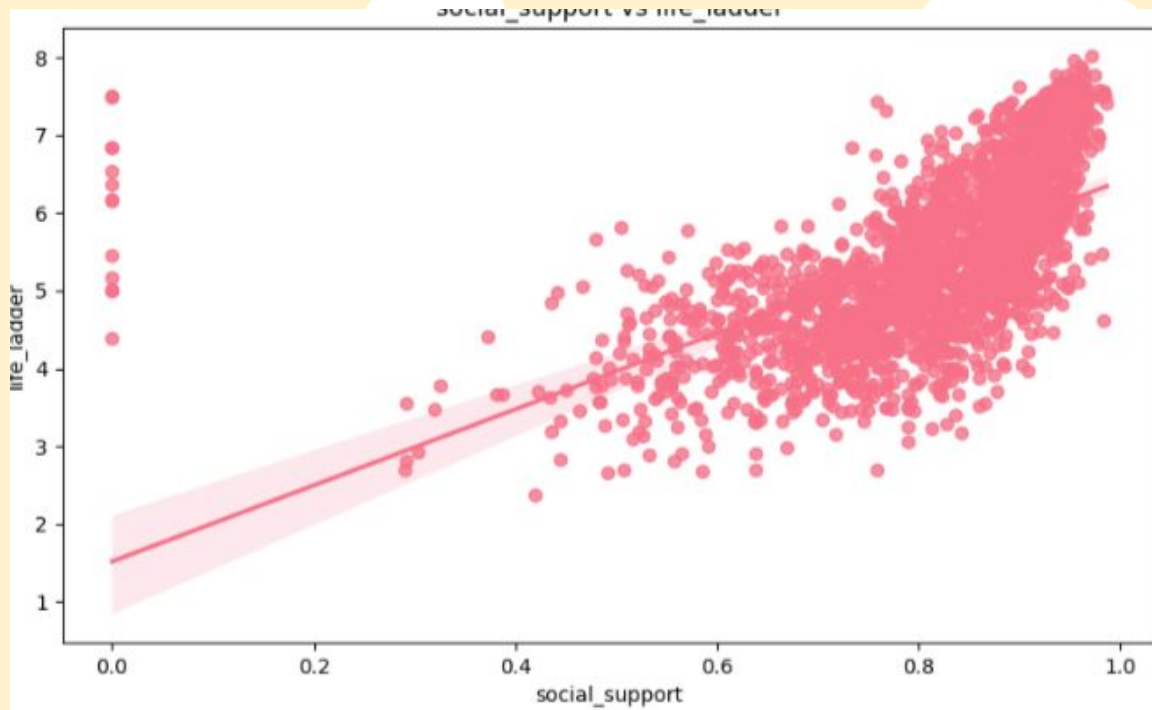
Vs.

Life Ladder (Happiness Score)
Survey 1-10

Negative Correlation (Outliers)

Social Support

- What is social support?

- 0.0 (Nobody to count on)

- 1.0 (Many to count on)

- Sharp increase after 0.5

- Outliers

- Positive Correlation

social_support vs life_ladder

Our Interpretation

- Overall the dataset emphasizes how happiness and well-being can be influenced by various factors.
  - Economic Prosperity
  - Social Support
  - Perception of Corruption
- **This data set reveals that happiness is a multidimensional concept.**
- How can we utilize this dataset?

Resources

- https://www.worldometers.info/gdp/gdp-by-country/
- https://worldhappiness.report/
- https://resources.unsdsn.org/happiness-and-well-being