**ASSIGNMENT DATE:09/09/2025**

**World Happiness Report**

**“The task is to describe each column in the World Happiness Report dataset”**

The World Happiness Report dataset is a structured compilation of global survey data and socioeconomic indicators used to evaluate and rank countries based on their citizens' perceived happiness. Each row in the dataset represents a country or region, and each column captures a specific factor that contributes to the overall happiness score.

**Country or Region**

* Identifies the country or region being evaluated.
* Used for grouping and comparison; no calculation involved.

**Score**

* Represents the overall happiness level of the country.
* Calculated as the sum of all contributing factors below.
* Typically ranges from **4.5 to 7.8** in this dataset.

**Log GDP per Capita**

* Measures economic output per person, log-transformed.
* Higher values indicate stronger economies.
* Normalized to reduce skew from extreme values.

**Social Support**

* Reflects the percentage of people who feel they have someone to rely on.
* Derived from survey responses.
* Strong social networks boost this value.

**Healthy Life Expectancy**

* Indicates expected years of healthy living.
* Based on WHO data, adjusted for quality of life.
* Higher values suggest better healthcare and lifestyle.

**Freedom to Make Life Choices**

* Measures perceived autonomy in personal decisions.
* Survey-based metric.
* High scores often correlate with democratic governance.

**Generosity**

* Captures willingness to help others or donate.
* Based on behavioral data and survey responses.
* Not always tied to wealth some lower-GDP countries score high.

**Perceptions of Corruption**

* Gauges trust in government and institutions.
* Lower values mean higher perceived corruption.
* Survey-based; affects societal trust and well-being.

**Dystopia + Residual**

* A modeling construct combining a hypothetical worst-case baseline and unexplained variance.
* Ensures all countries have a minimum score.
* Balances the model when other metrics don’t fully explain happiness