









Greetings! I'm Nathan Evans, a passionate data analyst with a knack for turning raw data into compelling narratives. I thrive on uncovering insights that drive strategic decision-making.

Soft Skills

Tools & Technologies

Analytical Skills

Certifications

- Communication: Clear, concise, and engaging.
- Problem Solving:
 Analytical approach to challenges.
- Teamwork: Collaborative mindset, adept and experienced at working in diverse teams.
- Adaptability: Flexible and quick to learn new concepts.

- Excel
- Tableau
- Python
 - Jupyter Notebook
 - Pandas
 - Numpy
 - Seaborn
 - Matplotlib
 - Plotly
 - Folium
- PostgreSQL
 - pgAdmin4

- Translating Business Requirements
- Cleaning & Preparing Data
- Data Wrangling
- Data Merging
- Data Integration
- Forecasting
- Regression
- Clustering
- Descriptive Analysis
- Geospatial Analysis
- Data Visualization
- Presenting Results & Storytelling

- CareerFoundry Intro to Data Analytics
- CareerFoundry Data Immersion
- CareerFoundry Data Analytics Program
- AWS Certified Cloud Practitioner

















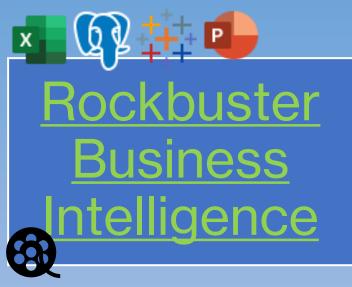




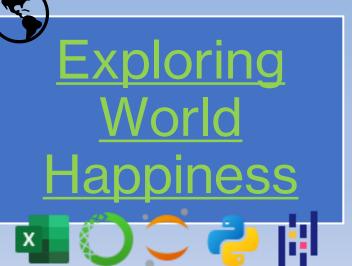
Projects & Tool Utilization













GameCo Project Overview



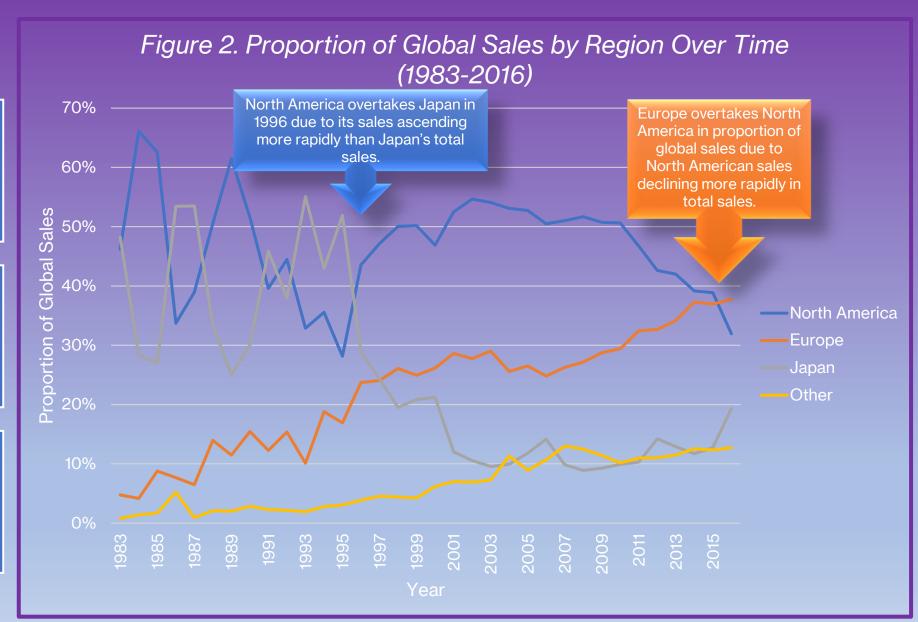
In my capacity as an analyst at GameCo, this project aims to conduct a detailed analysis of video game sales data. The primary objective is to uncover market trends, explore popular genres, analyze regional variations in sales, and examine sales fluctuations over time. The insights gleaned from this analysis will play a crucial role in shaping the sales strategies for future game releases.

Project Data:

Original Data Set **Project Brief**

Tools:

Excel **PowerPoint Pivot Tables** Visualization Tools





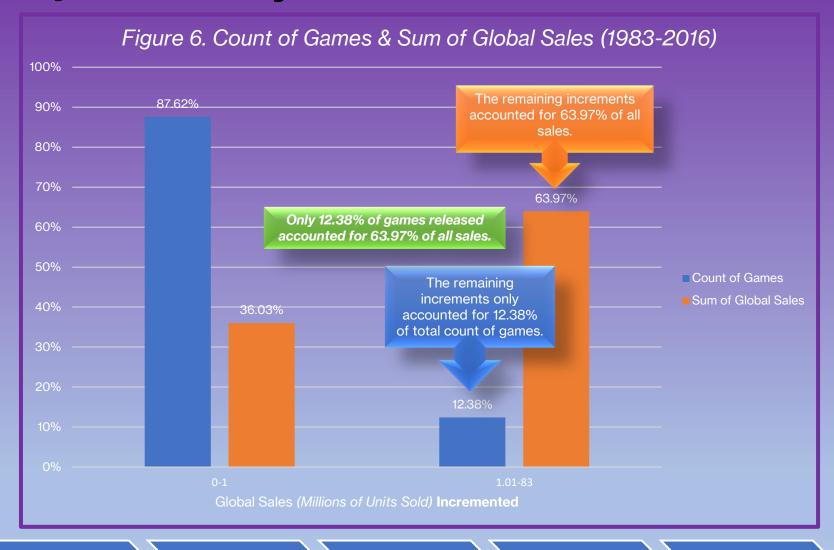
GameCo Project Analysis



Conducted a thorough analysis of the dataset to uncover key business insights.

Created visual aids to present the analysis findings, enabling clear communication of datadriven insights to stakeholders for a renewed business understanding.

Process



Exploratory Data Analysis Data Cleaning & Preparation

Grouping & Summarization of Data

Initial Analysis

Visualization

Stakeholder Reporting



GameCo Project Recommendations



North America:

Focus on **PS4** and **Xbox One** platforms and **Action, Shooter** and **Sports** genres. Focus on games published by the top 10 publishers for North America.

Europe:

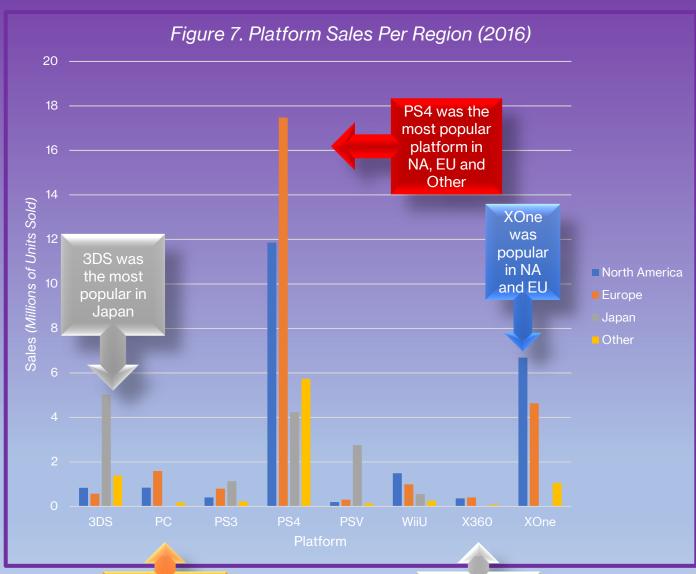
Focus on **PS4** and **Xbox One** platforms and **Action, Shooter** and **Sports** genres. Shift PC platform marketing primarily to Europe as it has the most PC sales. Europe has overtaken North America as the top region in proportional sales; therefore, shift marketing towards this region. Focus on games published by the top 10 publishers for Europe.

Japan:

Focus on *3DS*, *PS4* and *PSV* platforms and *Role-playing*, *Action* and *Misc.* genres. **PC and Xbox** is **nearly zero**, reduce marketing for these platforms. Focus on games published by the top 10 publishers for Japan.

Other Regions:

Focus on **PS4**, **3DS** and **Xbox One** platforms and **Action**, **Shooter** and **Sports** genres. Focus on games published by the top 10 publishers for Other. This region's proportional sales have been steadily increasing over time. Consider gathering more data to differentiate these regions as they become a higher proportion of global sales in the future.





(+) Influenza Project Overview



Measure Values 24,517 218,071

In response to the upcoming flu season in the U.S., the aim is to contribute to strategic influenza season planning. This involves pinpointing regions experiencing escalated demand for supplementary staffing on a national scale. The overarching objective is to analyze influenza patterns, leveraging these insights to proactively strategize and optimally allocate staffing resources across the nation.

Project Data:

Original Data Set 1 Original Data Set 2 **Project Brief**

Tools:

Excel **PowerPoint** Tableau

Influenza Deaths by Age Group Treemap (2009-2017) United States Deaths 85+ years Deaths 65-74 years Deaths Under 5 years Deaths 55-64 years 68.003 49.454 45.252 Deaths 45-54 years Deaths 25-34 years Deaths 5-14 30.408 25.195 24.517 Deaths 15-24 years Deaths 35-44 years 24.926 25,748



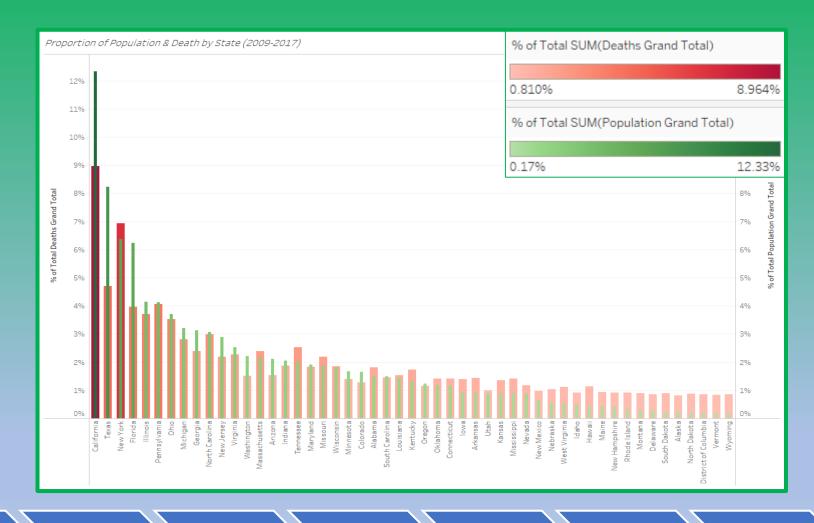
Influenza Project Analysis



Utilized advanced statistical techniques within Excel to perform comprehensive data cleaning, aggregation, and analysis.

Executed inferential analysis by employing hypothesis testing methodologies on pivotal variables.

Extracted strategic insights by leveraging sophisticated visual analysis tools within Tableau, addressing key business inquiries.





) Influenza Project Recommendations



If only utilizing total deaths in our decision, small population states with less resources and high mortality rates will not receive enough help as the larger population states would take the lion's share of medical staffing resources.

If only utilizing mortality in our decision, populations with higher total deaths would not receive the necessary help required, and the states with high mortality would receive too much help.

Utilizing a weighted score, an informed decision on how much medical staffing resources can be sent to each state that takes into account both total deaths & mortality.

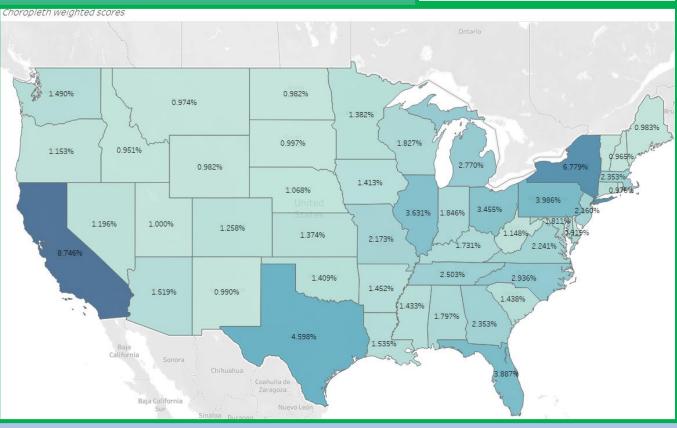
Weighted Score:

(0.5 * [Death Count Per Capita]) + (0.5 * [Deaths Grand Total])

If we use a 50/50 weight for Mortality and Total Deaths, it means that equal weight is given to the importance of both factors when determining the level of assistance needed for each state.

In this case, both the severity of the influenza outbreak (as reflected by per capita deaths/mortality) and the practical need for resources in larger populations (as reflected by total death count) are considered equally important in the medical staffing resource allocation decision.







Rockbuster Project Overview



As a data analyst hired by the Business Intelligence department, the objective is to harness Rockbuster's existing movie licenses and leverage data-driven insights to formulate a competitive edge in the online video rental market.

Project Data:

Original Database File

Project Brief

SQL Queries

Data Dictionary

Presentation

Data She

Tools:

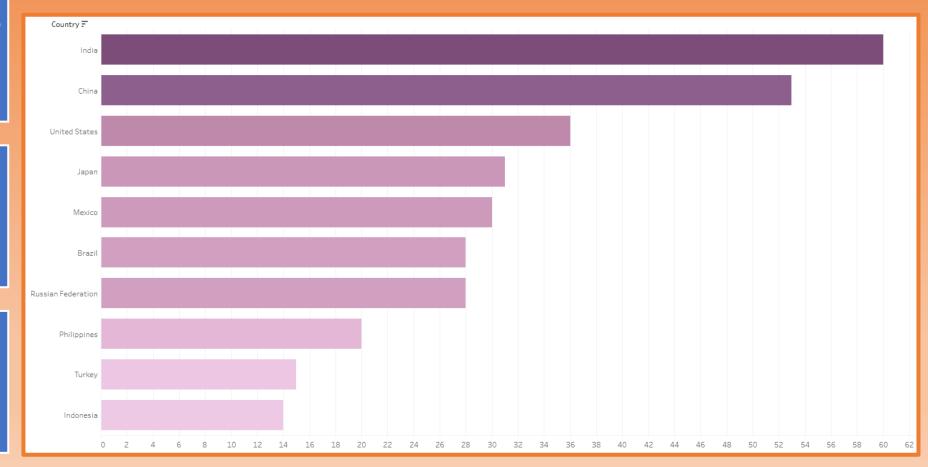
Excel

PostgreSQL

pgAdmin4

Tableau

Figure 1. Top 10 Countries by Rockbuster Customer Count





Rockbuster Project Analysis



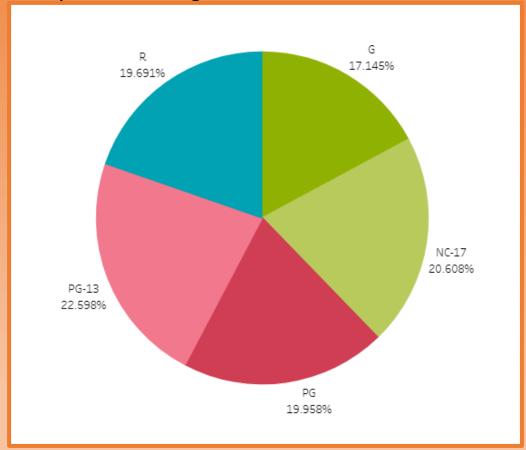
Collated data from diverse warehouse tables to directly target key business objectives, extracting valuable insights.

Utilized Tableau Public to create visuals based on SQL-generated reports.

Created clear and concise documentation, encompassing a data dictionary and analysis methodology, ensuring transparency and reproducibility in data interpretation.

Process

Figure 2. Percentage of Rockbuster Revenue by MPAA Rating



Data Dictionary Creation

Analysis

Cleaning & Summarizing Data in SQL

User Profile Grouping

Deriving Insights using Nested Queries & Common Table Expressions

Visualizing Insights in Tableau

Stakeholder Reporting



Rockbuster Project Recommendations 🛂 💖





Focus on obtaining and maintaining Licenses for **Sports**, **Foreign**, **Documentary**, and **Family Genres** as they are the top performing in both **Revenue** and Number of **Rentals**.

Focus on **PG-13** films as it is the highest performing **MPAA Rating**; however, it is wise to not ignore other ratings as they also perform well, and it is sensible to have a variety of content.

Focus resources towards **Top 10 Nations by Revenue** and consider shifting resources away from Bottom 10 Nations by Revenue.

Keep a close eye on nations which have a growing **Customer Count**, as this is closely correlated with revenue.

Set prices close to the average of \$3 per rental.

Develop a Perks or **Rewards System** for **High Lifetime Value Customers** as they generate much more revenue than the average customer.

Data Output Messages Notifications			
+			•
	genre character varying (25) €	revenue numeric	rental_count bigint
	Action	895.92	228
	Animation	944.93	226
	Children	826.08	212
	Classics	795.17	204
	Comedy	774.19	192
	Documentary	911.85	239
	Drama	742.01	229
	Family	987.85	235
	Foreign	1008.72	252
J	Games	862.04	208
	Horror	740.25	194
!	Music	593.36	179
	New	812.99	214
1	Sci-Fi	820.13	201
j	Sports	976.65	259
	Travel	667.20	203

Total rows: 16 of 16

Query complete 00:00:00.051



Instacart Project Overview



As an analyst for Instacart, an online grocery store operating through an app, the goal is to conduct an initial data and exploratory analysis. This project aims to derive insights and recommend strategies for better customer segmentation based on provided criteria.

Project Data:

Tools:

Python

Pandas

Numpy

Matplotlib

Seaborn





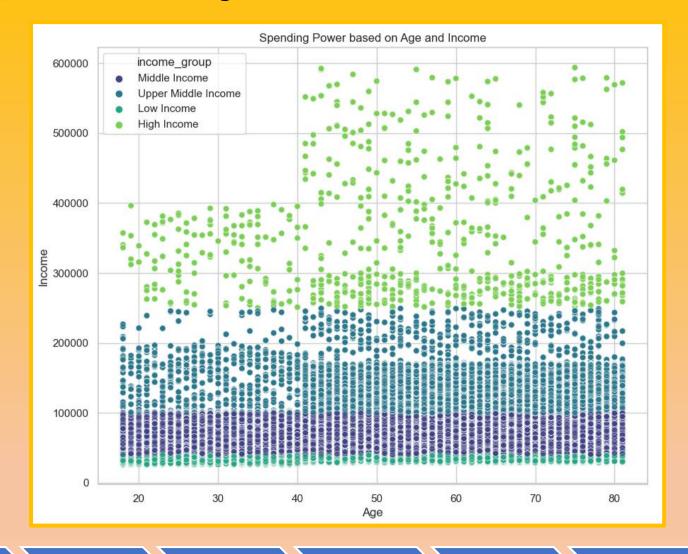
Instacart Project Analysis



Utilized Python to conduct initial analysis, employing sophisticated grouping and aggregating functions to extract crucial business insights.

Employed visual analysis techniques and descriptive statistics to tackle fundamental business queries.

Supplementary insights into the analysis methodology and additional visual representations are available in the Final Report.



Exploratory Data Analysis

Data Wrangling

Consistency Checks

of Tables

Derivation of New Tables

Grouping & Aggregation Visualization of Insights

Stakeholder Reporting



Instacart Project Recommendations 💶 🔾 🦵 🗂







aligning advertising campaigns with the busiest days and peak order hours, while tailoring promotions to the preferred price range hours, can significantly enhance Instacart's visibility and engagement with its customer base.

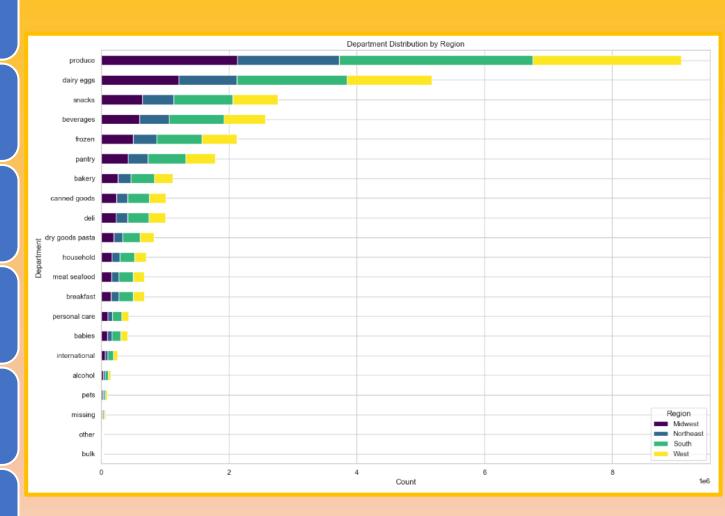
The largest segment comprises regular customers, followed by loyal customers, with new customers representing the smallest group.

Given that produce, dairy, and snacks consistently emerge as the most popular departments across all regions, it is advisable for Instacart to focus its advertising efforts on highlighting and promoting products within these categories.

The predominant share of orders is attributed to mid-range products, followed closely by low-range items, while high-range products constitute only a small fraction of total orders.

Given the positive correlation between spending power and age for customers over 40, Instacart should consider tailoring advertising strategies to specifically target this demographic.

Middle-aged adults (ages 35-64) clearly dominate across all family profiles, comprising the largest customer segment. They represent the highest numbers in every category.





🖏 World Happiness Project Overview 🝱 💚 🗭 😽





Conducted an advanced exploratory analysis of world happiness data using Python. Employing visualizations, geospatial analysis, regression, clustering, and Tableau dashboards and Storyboards to extract valuable insights and trends within countries, regions, and globally.

Project Data:

Tools:

Python

Pandas

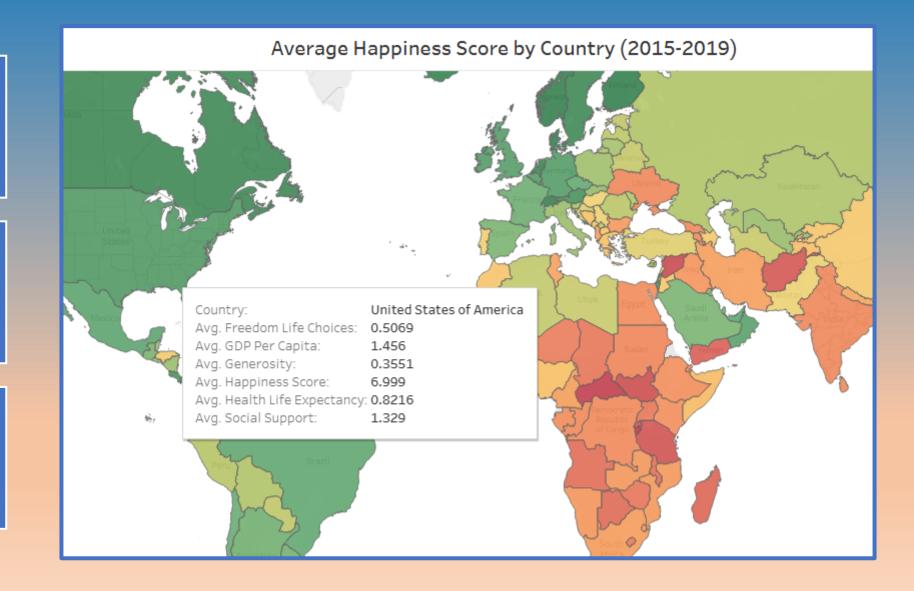
Numpy

Matplotlib

Seaborn

Plotly

Folium





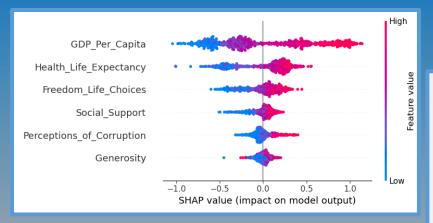
World Happiness Analysis

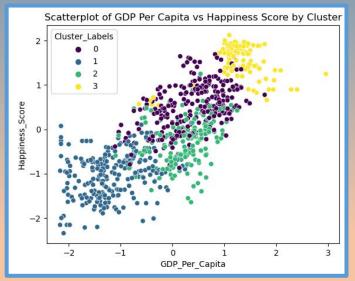


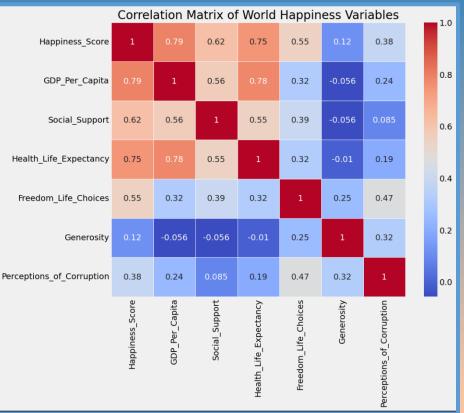
Utilized Python for the initial exploratory analysis, incorporating visualizations, geospatial techniques (including JSON file integration), and statistical summaries to gain insights into the world happiness dataset.

Applied regression analysis to discern the influential factors affecting happiness scores, progressing towards a deeper understanding of the dataset's dynamics and geographical variations.

Implemented clustering techniques to unveil patterns and groupings within the data, paving the way for the creation of interactive Tableau dashboards and Storyboards that visually communicate nuanced insights and trends across countries, regions, and the globe.







Exploratory Data Analysis

Data Wrangling

Consistency Checks

Geospatial Analysis

Machine Learning Techniaues & Clustering

Visualization of Insights

Data Dashboards

Tableau Storyboard



World Happiness Recommendations



Conclusion: Based on the analysis encompassing linear regression, clustering, analysis of variable importance, and Shap values, the findings consistently demonstrate that an increase in **GDP per Capita** correlates significantly with heightened levels of happiness.

Recommendation: Advocate for inclusive economic policies aimed at reducing income inequality and creating opportunities for all citizens, fostering economic growth.

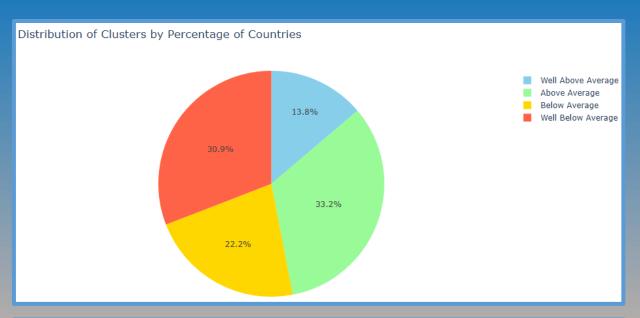
Social Support: Strengthen social support systems through community programs and services, promoting emotional and practical assistance to enhance overall well-being

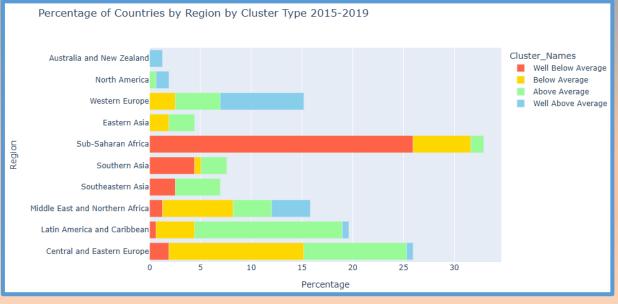
Perceptions of Corruption: Advocate for transparent governance to address perceptions of corruption, fostering trust and confidence among citizens.

Freedom Life Choices: Uphold individual freedoms and choices through policies that respect personal autonomy, allowing citizens to make decisions aligned with their values.

Health Life Expectancy: Ensure access to quality healthcare services for all citizens, investing in healthcare infrastructure and preventive measures to improve health

Generosity: Encourage a culture of generosity by promoting philanthropy and volunteerism, fostering a sense of community and shared responsibility.







Let's turn data into actionable insights together!



