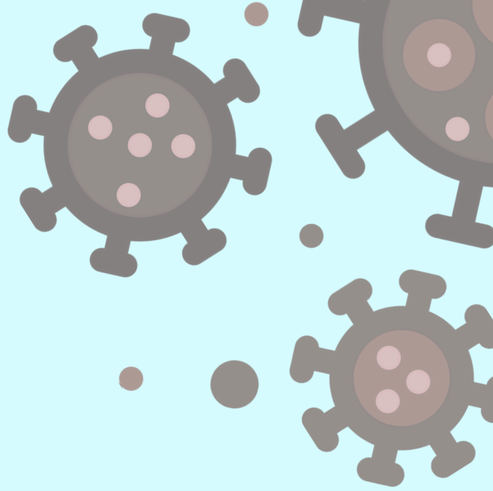
LIGHTNING TALK 2

# COLORECTAL CANCER

Know it. Fight it. Prevent it.

# PROBLEM STATEMENT



Colorectal cancer remains a significant public health challenge worldwide. As an analyst, I was hired by the Ministry of Health to help raise awareness about colorectal cancer in Bahrain. The main challenge lies in extracting actionable insights from available data to improve early detection, patient care, and cost efficiency.

# GOALS

1.Understand colorectal cancer patterns.

2. Identify key risk factors.

3.Support data driven prevention strategies.

# AIMS

1.Analyze incidence and mortality data.

2. investigate relationships between risk factors and cancer stage.

3.Provide recommendations to awareness an early detection.

# APPROACHES

1-What are the common demographic and lifestyle risk factors associated with colorectal cancer?

2-How do incidence and mortality rates vary across countries and age?

3-What is the relationship between cancer stage and survival chances?

4-How do different treatment type affect patient outcomes?

5- How do patient survival rate vary across regions depending on healthcare quality and accessibility?

# TOOLS

## Python

To Clean and Analyze

## Power BI

To Visualization

# AUDIENCE

**General Public and Community members**

To raise awareness about colorectal cancer, prevention, and early detection.

**Public Health Organizations**

To support evidence-based decisions on prevention programs and campaigns.

**Healthcare Professionals and Students**

To share insight from data trends and risk factors.

**At Risk Groups**

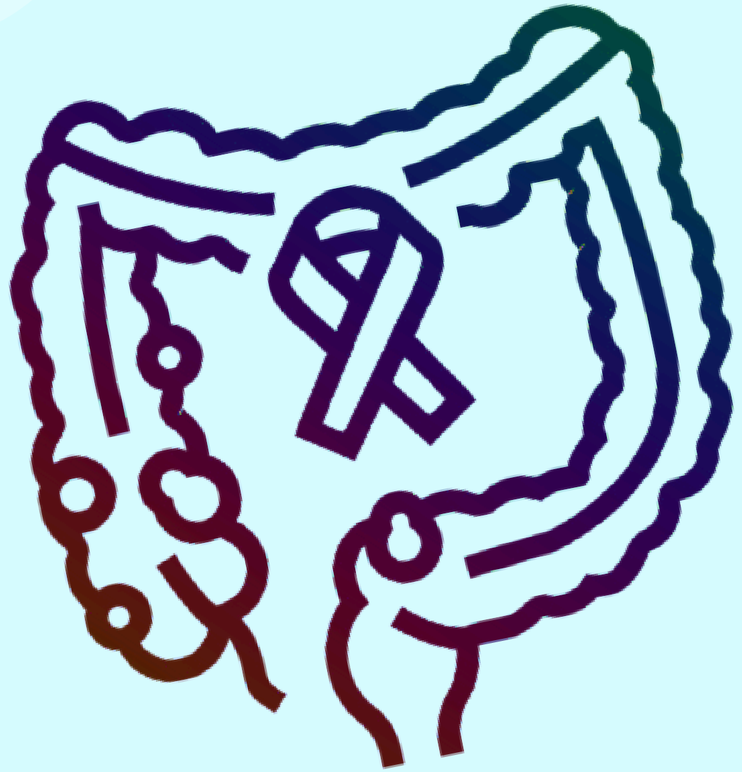
Such as people with family history of colorectal cancer to encourage screening and lifestyle changes.

# LIMITATIONS

- **The dataset lacks Middle Eastern data, limiting insights for that regions.**

  1. Cultural barriers and low awareness hinder early detection.
  2. Lack of national screening programs in most countries.
  3. Financial constraints limit access to effective screening methods like colonoscopy.
  4. Human displacement strains cancer control efforts in the region.

- **The dataset does not include a time period, which makes it unclear when the data was collected.**

# THANK YOU

For Your Attention