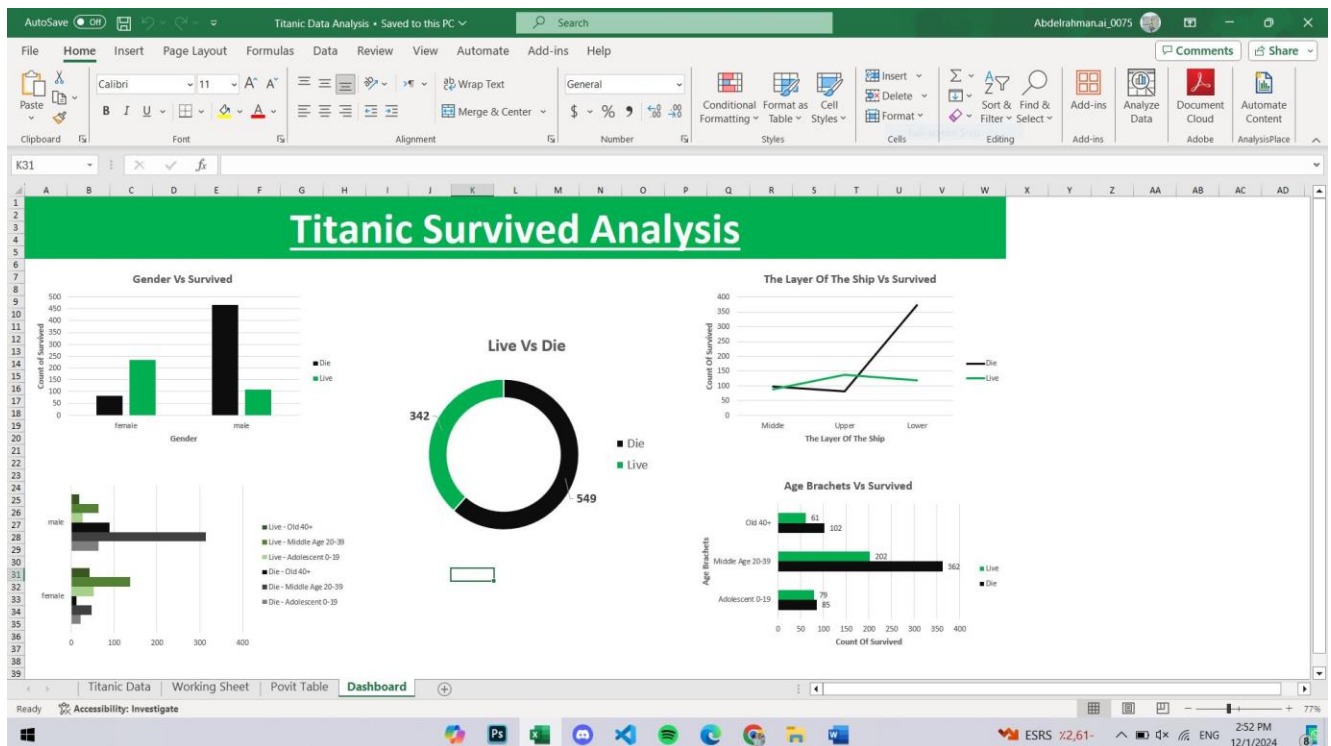# Titanic Survived Analysis

I'll analyze the Titanic dataset in your Excel file and provide a detailed description focusing on survival analysis. Let's start by examining the data to understand its structure and key features.

The Excel file contains the following sheets:

1. **Titanic Data** – Likely contains the raw data.

2. **Working Sheet** – May include cleaned or processed data.

3. **Povit Table** – Likely has pivot table analysis.

4. **Dashboard** – Could contain visualizations or summarized insights.

I'll begin by reviewing the "Titanic Data" sheet to understand the data structure and key columns related to survival analysis.

Overview of the Titanic Dataset

The dataset contains **891 entries** and **12 columns**, detailing various passenger attributes related to survival on the Titanic. Here are the key columns relevant to the survival analysis:

1. **PassengerId**: Unique identifier for each passenger.

2. **Survived**: Binary variable indicating survival (1 = Survived, 0 = Did not survive).

3. **Pclass**: Passenger class (1 = First, 2 = Second, 3 = Third).

4. **Name**: Passenger's name.

5. **Sex**: Gender (male or female).

6. **Age**: Passenger's age (contains missing values).

7. **SibSp**: Number of siblings/spouses aboard.

8. **Parch**: Number of parents/children aboard.

9. **Ticket**: Ticket number.

10. **Fare**: Ticket fare.

11. **Cabin**: Cabin number (mostly missing).

12. **Embarked**: Port of embarkation (C = Cherbourg, Q = Queenstown, S = Southampton).

Missing Data:

- **Age** has 177 missing entries.

- **Cabin** is mostly missing, with only 204 non-null entries.

- **Embarked** has 2 missing values.

Next, I'll provide a survival analysis by examining key factors such as gender, class, and age.

Titanic Survival Analysis Summary

1. Survival by Gender:

- **Females**:

  - Survived: 233 out of 314 (74.2% survival rate)

- **Males**:

  - Survived: 109 out of 577 (18.9% survival rate)

Insight: Females had a significantly higher survival rate compared to males.

2. Survival by Passenger Class (Pclass):

- **First Class (Pclass 1)**:

    o   Survived: 136 out of 216 (62.9% survival rate)

- **Second Class (Pclass 2)**:

    o   Survived: 87 out of 184 (47.3% survival rate)

- **Third Class (Pclass 3)**:

    o   Survived: 119 out of 491 (24.2% survival rate)

Insight: Passengers in First Class had a much higher chance of survival than those in Second and Third Class.

3. Survival by Age Group:

- **Child (0-12 years)**:

    o   Survived: 40 out of 69 (57.97% survival rate)

- **Teen (13-18 years)**:

    o   Survived: 30 out of 70 (42.86% survival rate)

- **Young Adult (19-35 years)**:

    o   Survived: 137 out of 358 (38.27% survival rate)

- **Adult (36-60 years)**:

    o   Survived: 78 out of 195 (40% survival rate)

- **Senior (61-80 years)**:

    o   Survived: 5 out of 22 (22.73% survival rate)

Insight: Children had the highest survival rate, followed by Adults, while Seniors had the lowest.

Made by : Abdelrahman Shokry Ibrahim
Whatsapp: +2001027854959
Linkedin: https://www.linkedin.com/in/abdelrahman-shokry-4a1158226/
Githup: https://github.com/Shokry74/Bike-Sales-DA-