



AI FOR EQUITABLE CLIMATE

NASA SPACEAPPS CHALLENGE
OCTOBER 2024

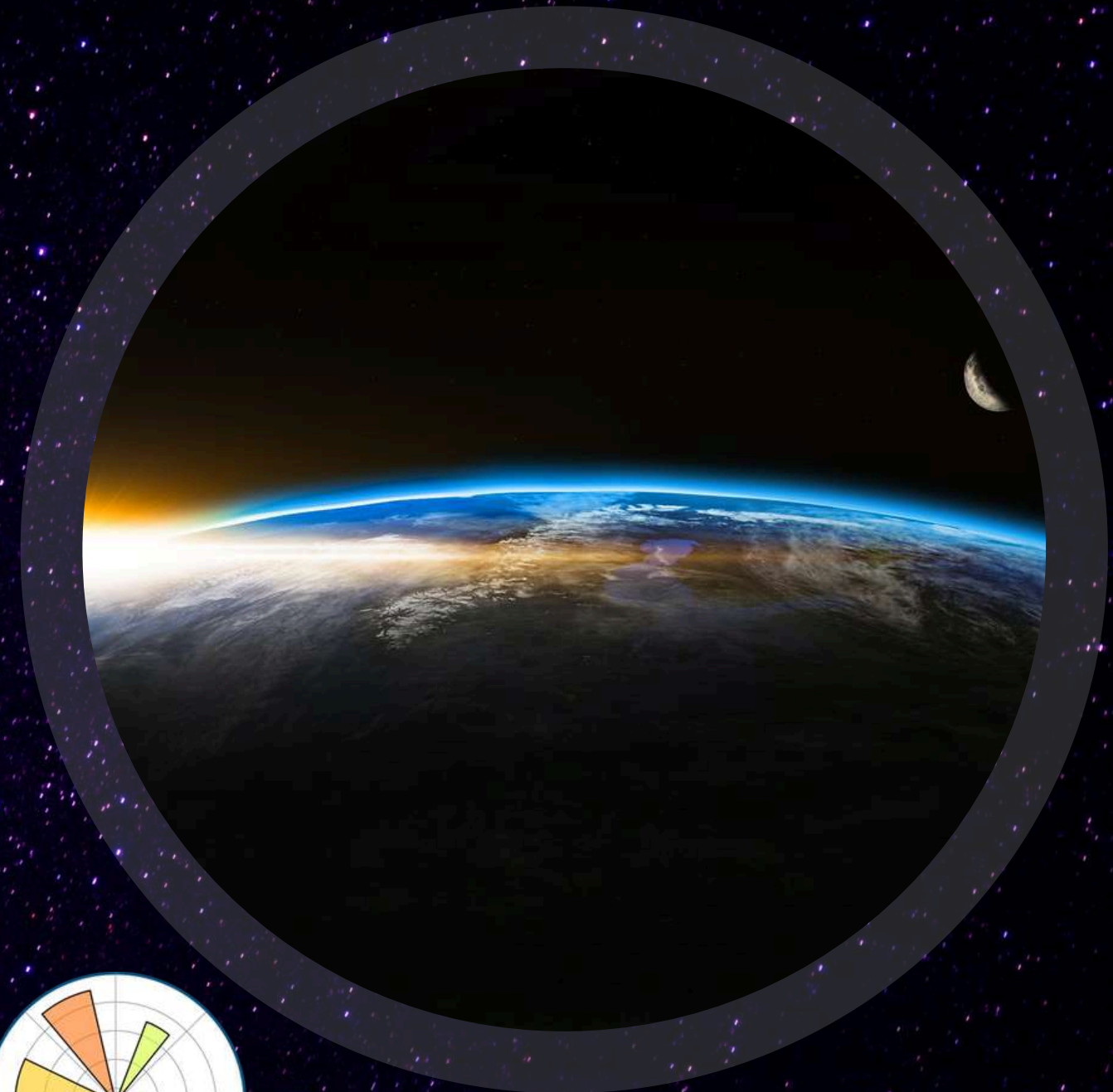
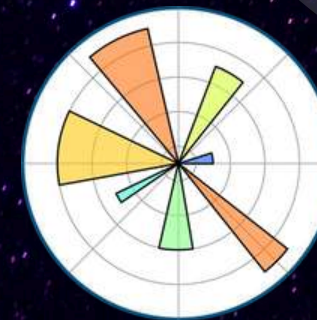
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INTRODUCTION

- **Background:** Gender inequality remains a significant global issue, affecting economic growth, social development, and overall well-being.
- **Objective:** This project aims to analyze gender inequality through the Gender Inequality Index (GII) and related gender statistics, highlighting disparities across countries.

DATA SOURCES AND METHODOLOGY

- Data Sources:
 - GII Dataset: Collected from UNDP.
 - Gender Stats: Utilized World Bank.
- Methodology: Data was cleaned and analyzed using Python libraries like pandas, matplotlib, and seaborn.

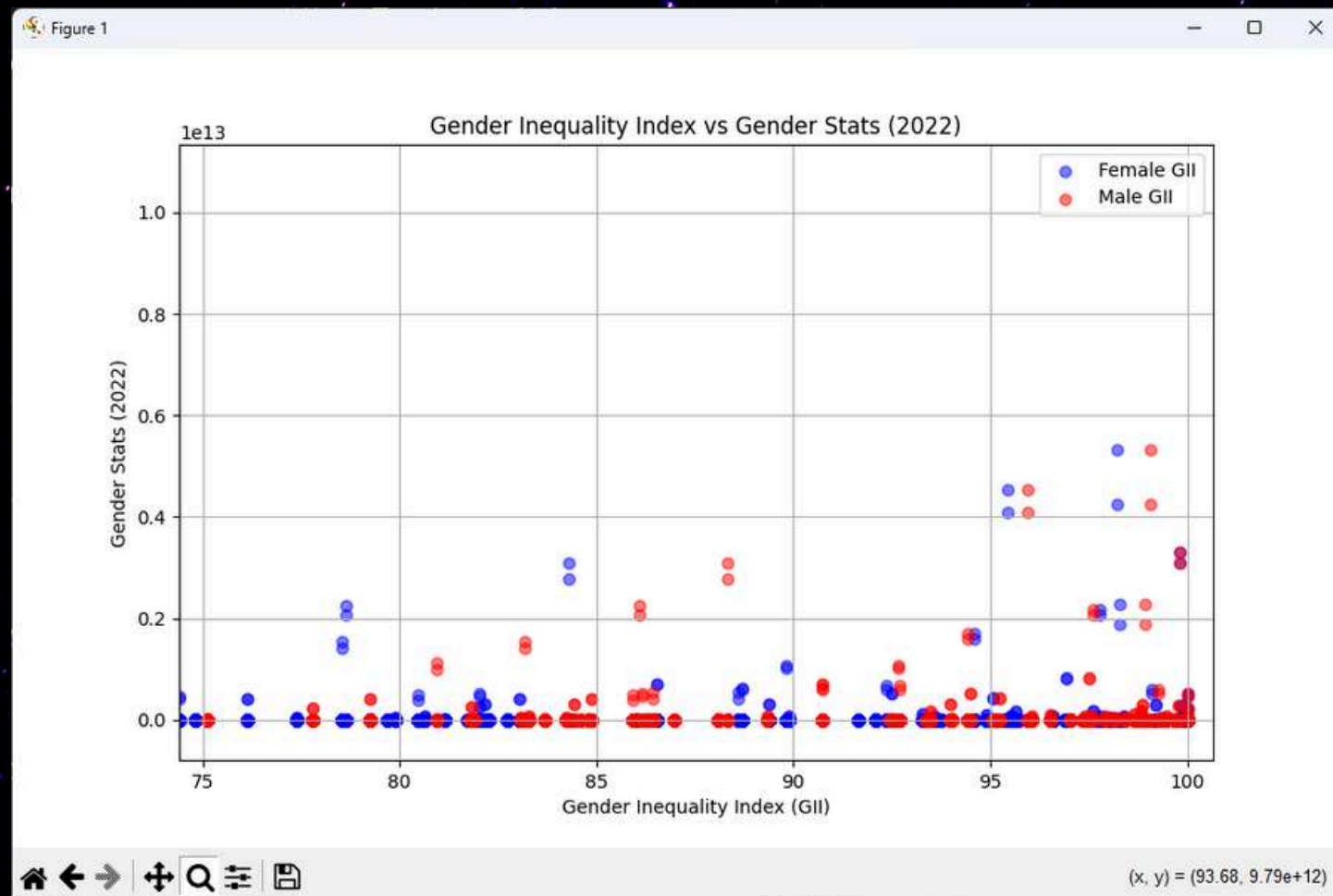


DATA CLEANING AND PREPARATION

- ***Initial Inspection:*** Reviewed initial data for inconsistencies.
- Cleaning Process: Renamed columns, removed unnecessary data, and handled missing values.
- Final Dataset: Key variables include Country Name, Female GII, Male GII, and related Gender Stats.



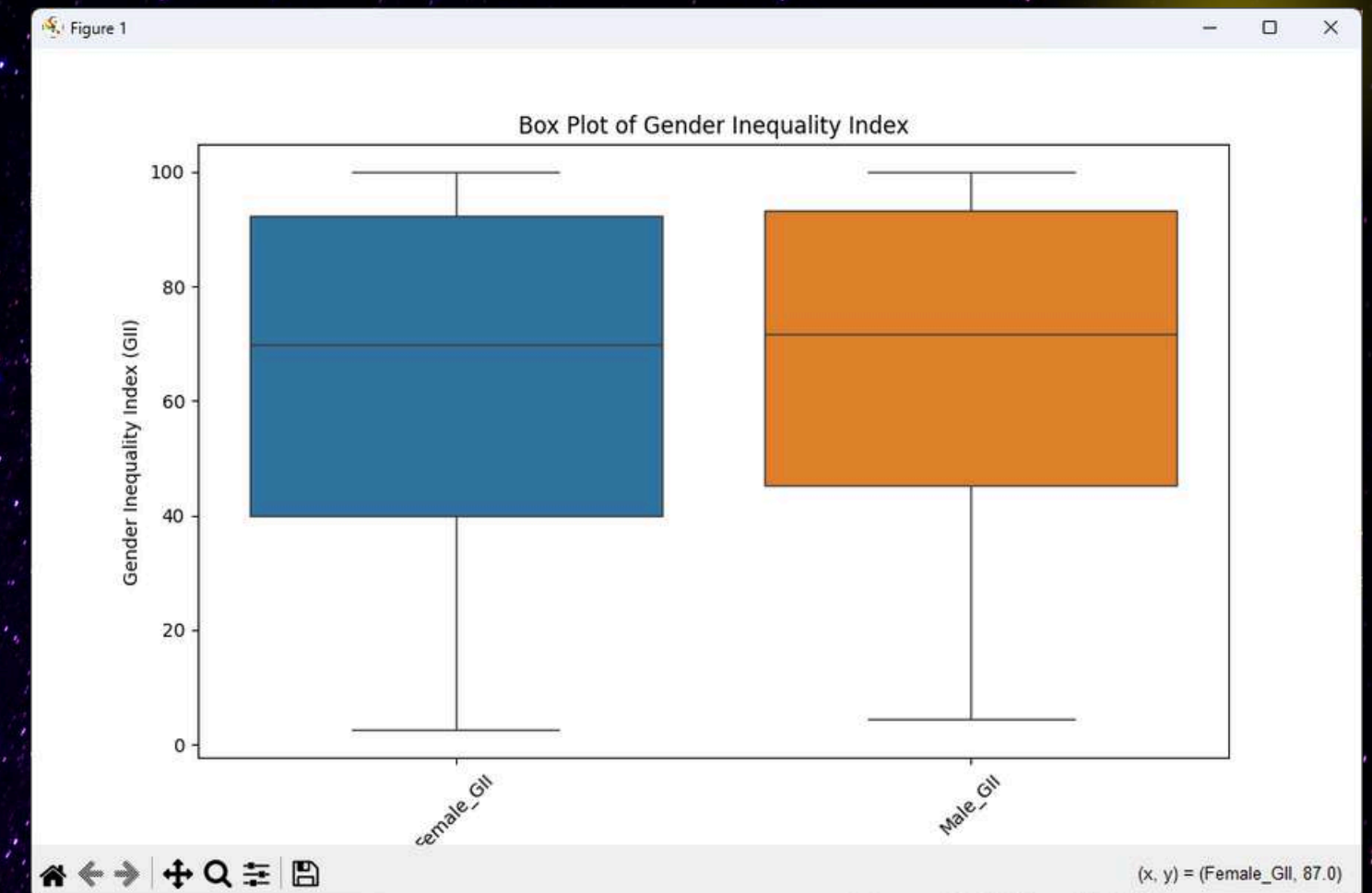
VISUALIZATIONS



01

Title: Visualizations of GII and Gender Stats
Figure 1: Gender Inequality Index vs.
Gender Stats (2022)

Explanation: "The scatter plot indicates a negative correlation between higher GII scores and gender statistics for 2022."

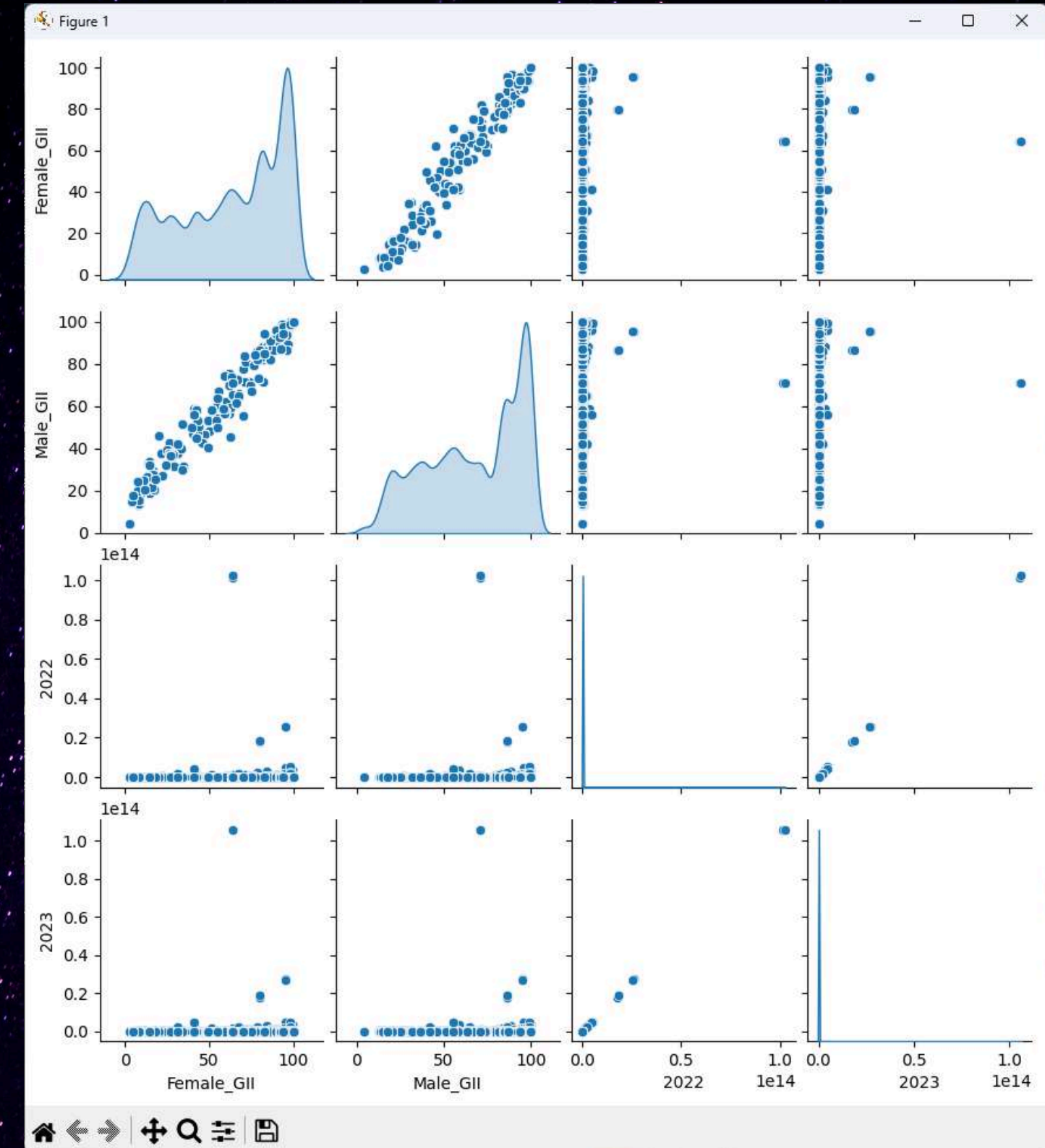


02

Figure 2: Box Plot of Gender
Inequality Index
Explanation: "The box plot illustrates
the distribution of GII scores,
showing significant spread and
outliers indicating extreme cases of
gender inequality."

KEY FINDINGS AND INSIGHTS

- Findings:
 - There is a clear negative correlation between GII and gender statistics.
 - Significant disparities exist between countries, with some countries experiencing extreme levels of gender inequality.
 - Trends indicate both progress and setbacks in gender equality over the years.



MORE VISUALIZATIONS AND FINDINGS

