

# Team Name: Leo

Team members:

Adam Rodi

Bishow Adhikari

Caleb Viverito

Max Del Rio

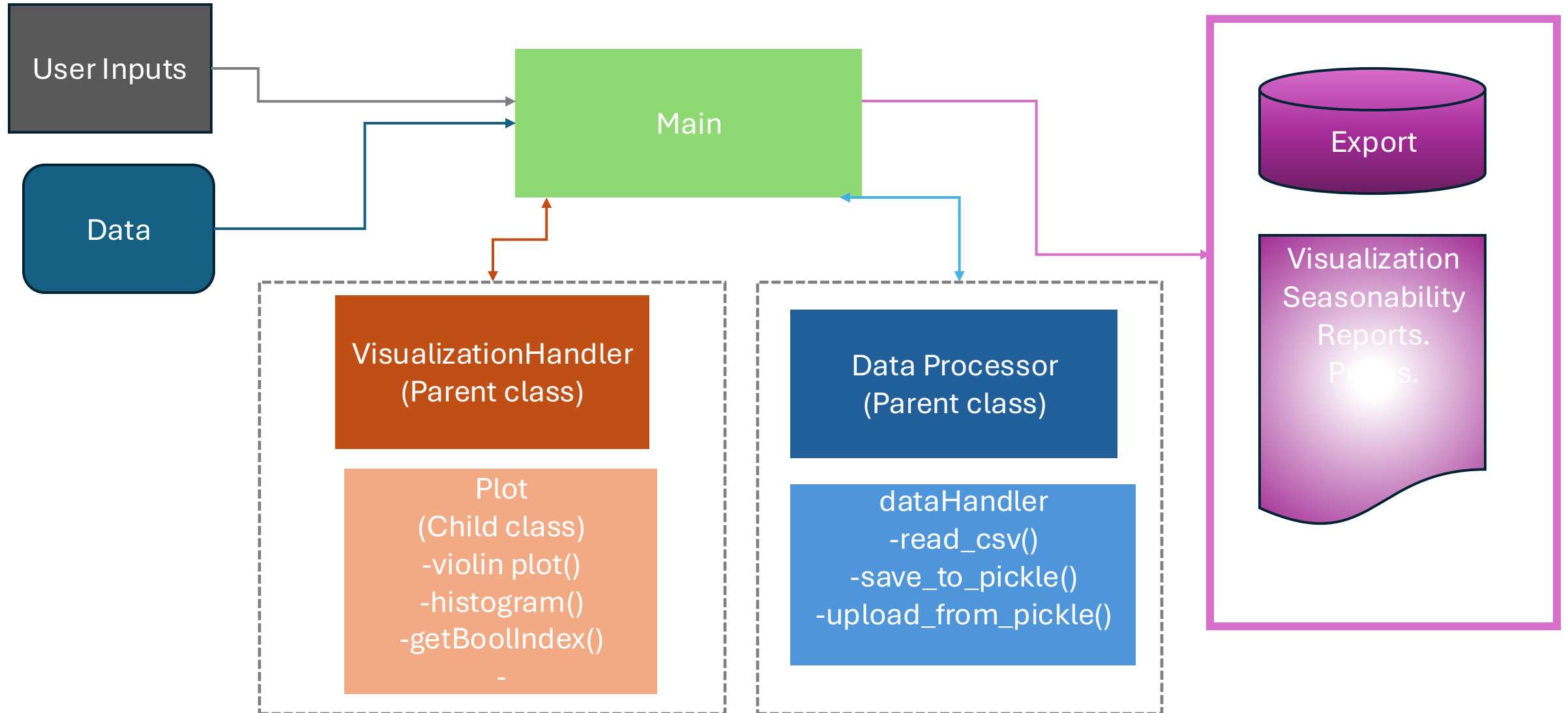
# GitHub URL

- [https://github.com/adamrodi/CS340\\_S25\\_Leo](https://github.com/adamrodi/CS340_S25_Leo)

# Goal of the Project

- **Analyze Patterns:** Investigate historical Bitcoin data to identify recurring seasonal and calendar-driven patterns, such as monthly anomalies (e.g., "January effect"), weekly trends (e.g., weekend price dips), or holiday-related fluctuations.
- **Provide Insights:** Uncover the underlying causes of observed seasonal effects (e.g., reduced trading volume on weekends, tax-related sell-offs in April) and propose strategies for stakeholders to leverage or mitigate these patterns.
- **Visualize Data:** Create intuitive visualizations (e.g., seasonal decomposition plots, calendar heatmaps, annotated line charts) to highlight cyclical trends and calendar effects for actionable decision-making.

# Module Communication Flow Diagram



# Data Format

## Csv File

Delimiter: comma

Example:

Timestamp	Open	High	Low	Close	Volume	datetime
1325412060		4.58	4.58	4.58	4.58	0 2012-01-01 10:01:00+00:00
1325412120		4.58	4.58	4.58	4.58	0 2012-01-01 10:02:00+00:00
1325412180		4.58	4.58	4.58	4.58	0 2012-01-01 10:03:00+00:00
1325412240		4.58	4.58	4.58	4.58	0 2012-01-01 10:04:00+00:00
1325412300		4.58	4.58	4.58	4.58	0 2012-01-01 10:05:00+00:00
1325412360		4.58	4.58	4.58	4.58	0 2012-01-01 10:06:00+00:00
1325412420		4.58	4.58	4.58	4.58	0 2012-01-01 10:07:00+00:00
1325412480		4.58	4.58	4.58	4.58	0 2012-01-01 10:08:00+00:00

# Task Progress Report

Date	Task Name	Status	Person
4/4/25	Brainstorm project ideas	Complete	Everyone
4/5/25	Create GitHub repo	Complete	Adam Rodi
4/6/25	Decide on project idea	Complete	Everyone
4/6/25	Design module outlines	Complete	Bishow Adhikari
4/6/25	Define input data format.	Complete	Everyone
4/6/25	Design module communication diagram	Complete	Everyone
4/6/25	Complete PA1 PowerPoint report	Complete	Everyone

# Team Communication and Participation

- Our primary mode of communication is through our group discord server.