DATA VISUALIZER

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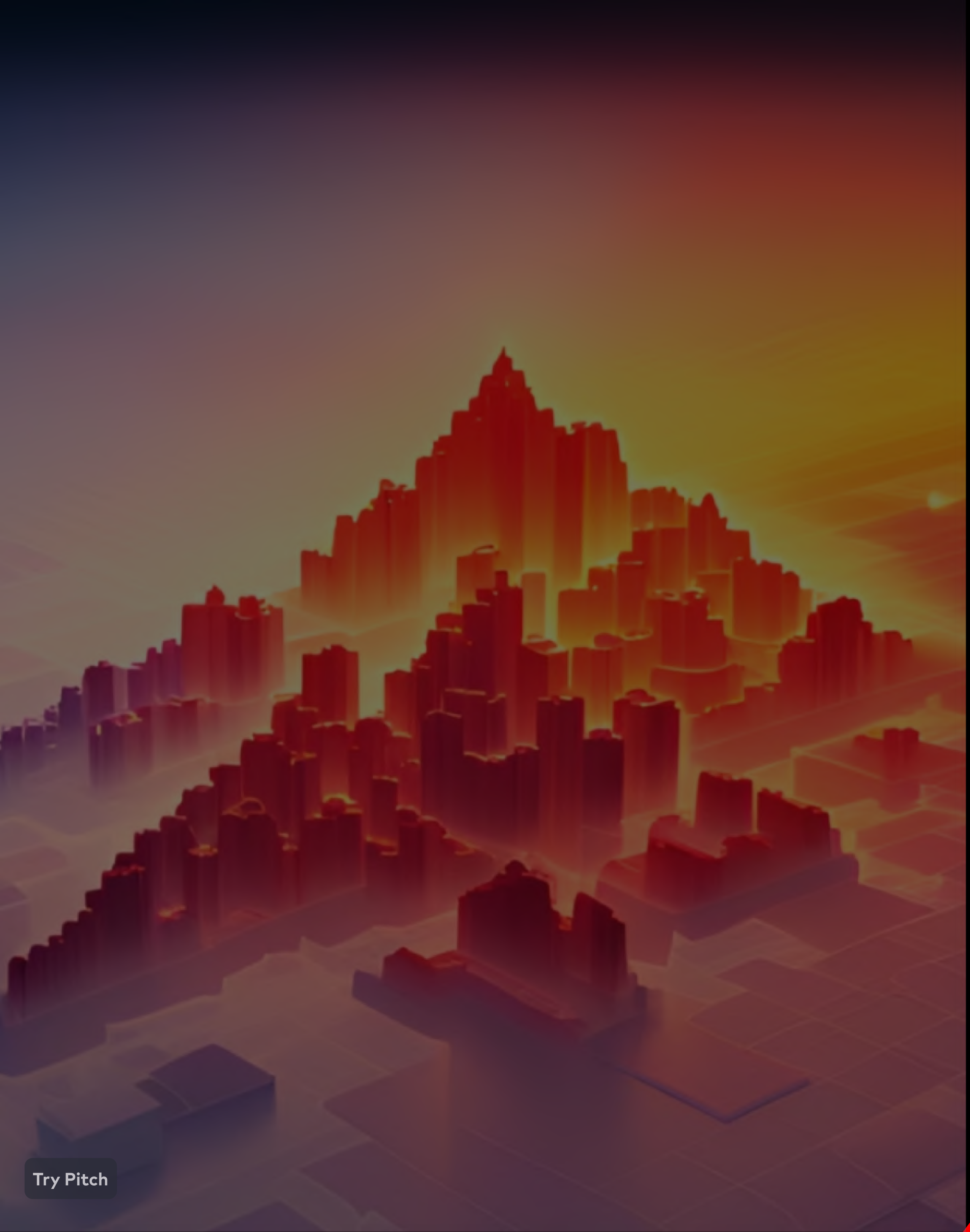
AGENDA

- INTRODUCTION
- TECHNOLOGIES
- FEATURES
- MODEL
- APPLICATIONS
- ADVANTAGES
- DEMONSTRATION



INTRODUCTON

This project is a web application designed to facilitate the visualization and exploration of student performance data from a CSV file. The application combines Flask, a Python web framework, with HTML and CSS to create an interactive user interface for data analysis. Users can select specific columns and graph types, and the backend dynamically generates corresponding graphs using Matplotlib. The goal is to provide educational professionals and researchers with a user-friendly platform to gain insights into the dataset through interactive visualizations, enabling data-driven decisions for educational improvements.

TECHNOLOGIES USED:

Python

Flask

Pandas

Matplotlib

HTML

CSS

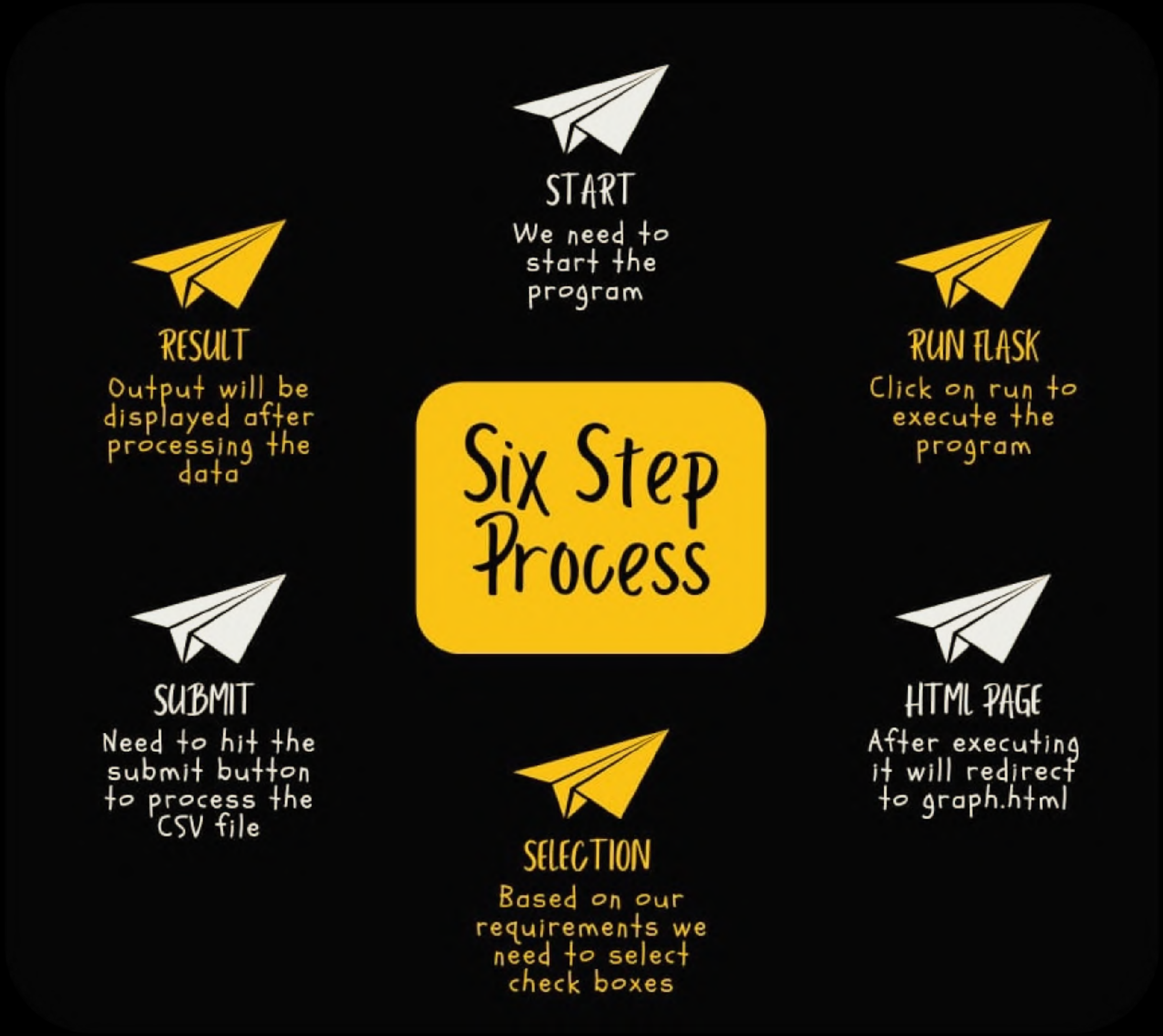
Java script

FEATURES

- Interactive Data Selection
- Multiple Graph Types
- User-Friendly Interface
- Dark-Themed Layout

- Flask Web Framework
- Rapid Insights
- Python Integration
- Data-Driven Decision Making

MODEL



Six Step Process

START
We need to start the program

RUN FLASK
Click on run to execute the program

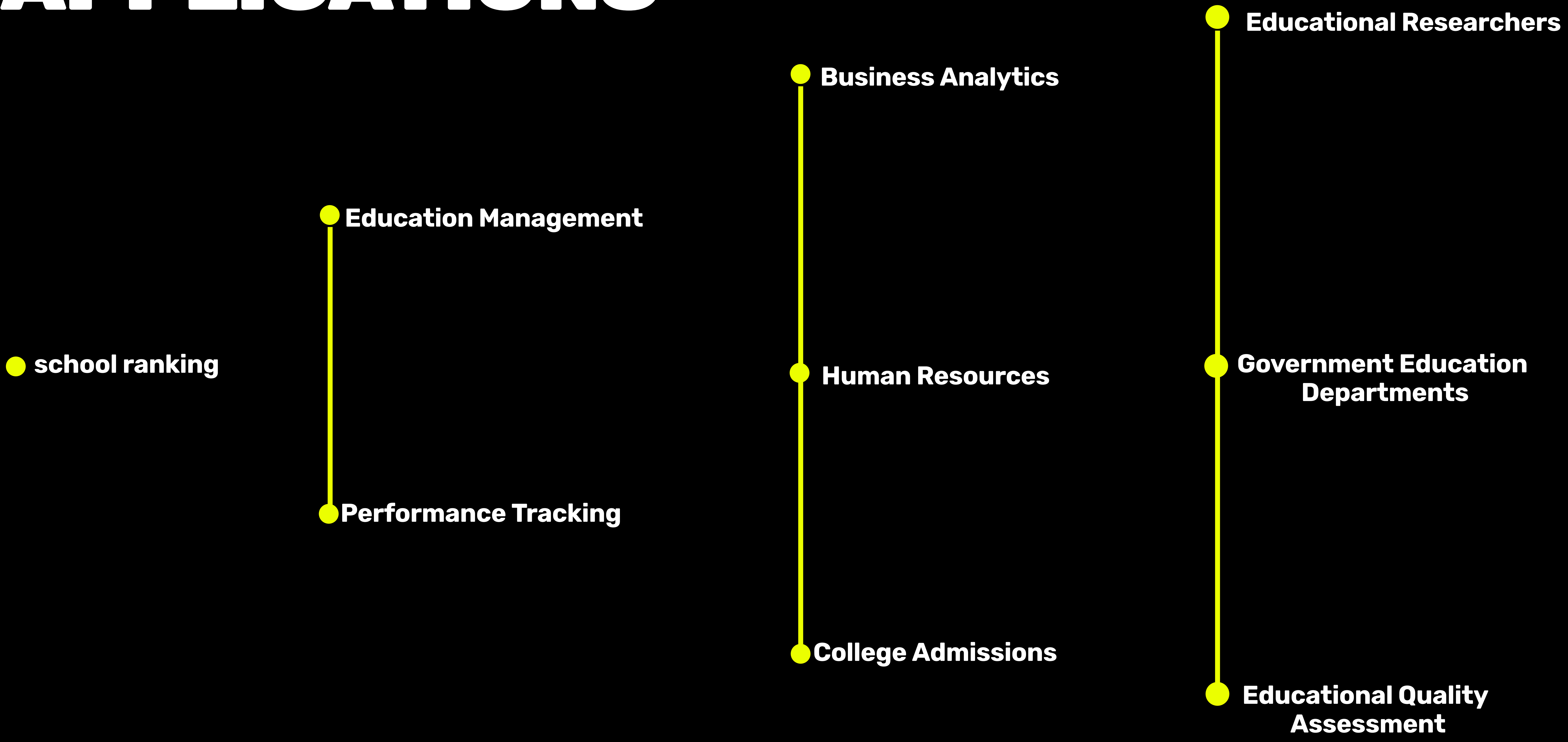
HTML PAGE
After executing it will redirect to graph.html

SELECTION
Based on our requirements we need to select check boxes

SUBMIT
Need to hit the submit button to process the CSV file

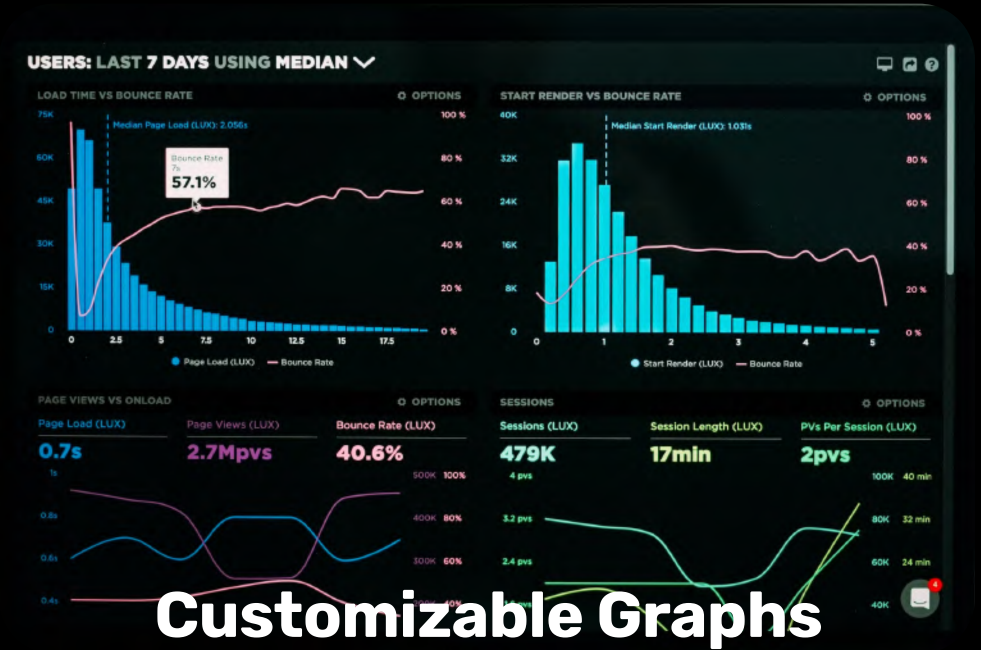
RESULT
Output will be displayed after processing the data

APPLICATIONS

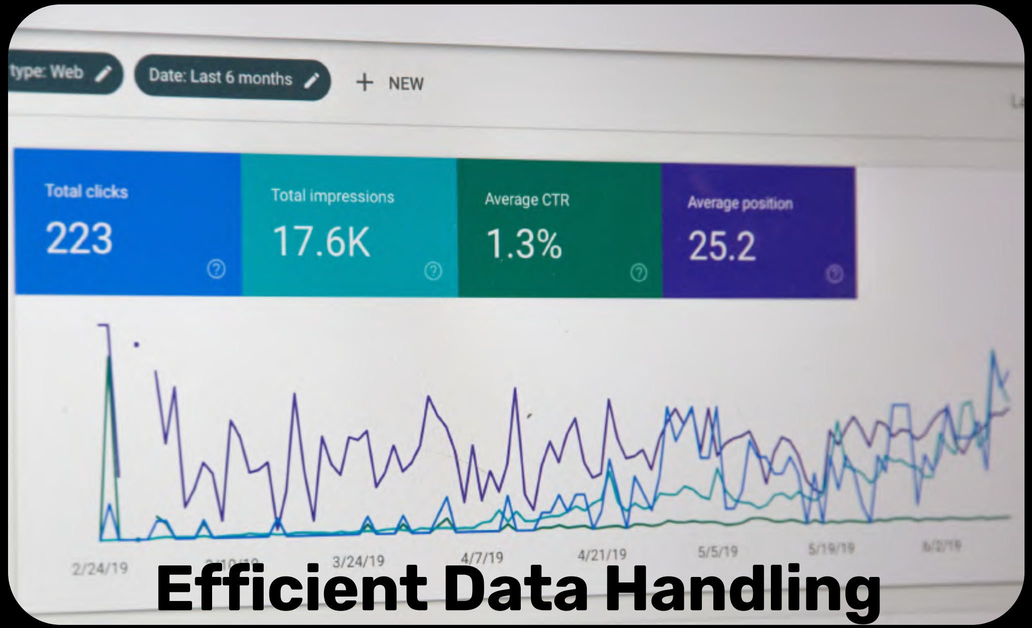


- school ranking
- Education Management
- Performance Tracking
- Business Analytics
- Human Resources
- College Admissions
- Educational Researchers
- Government Education Departments
- Educational Quality Assessment

ADVANTAGES



Customizable Graphs



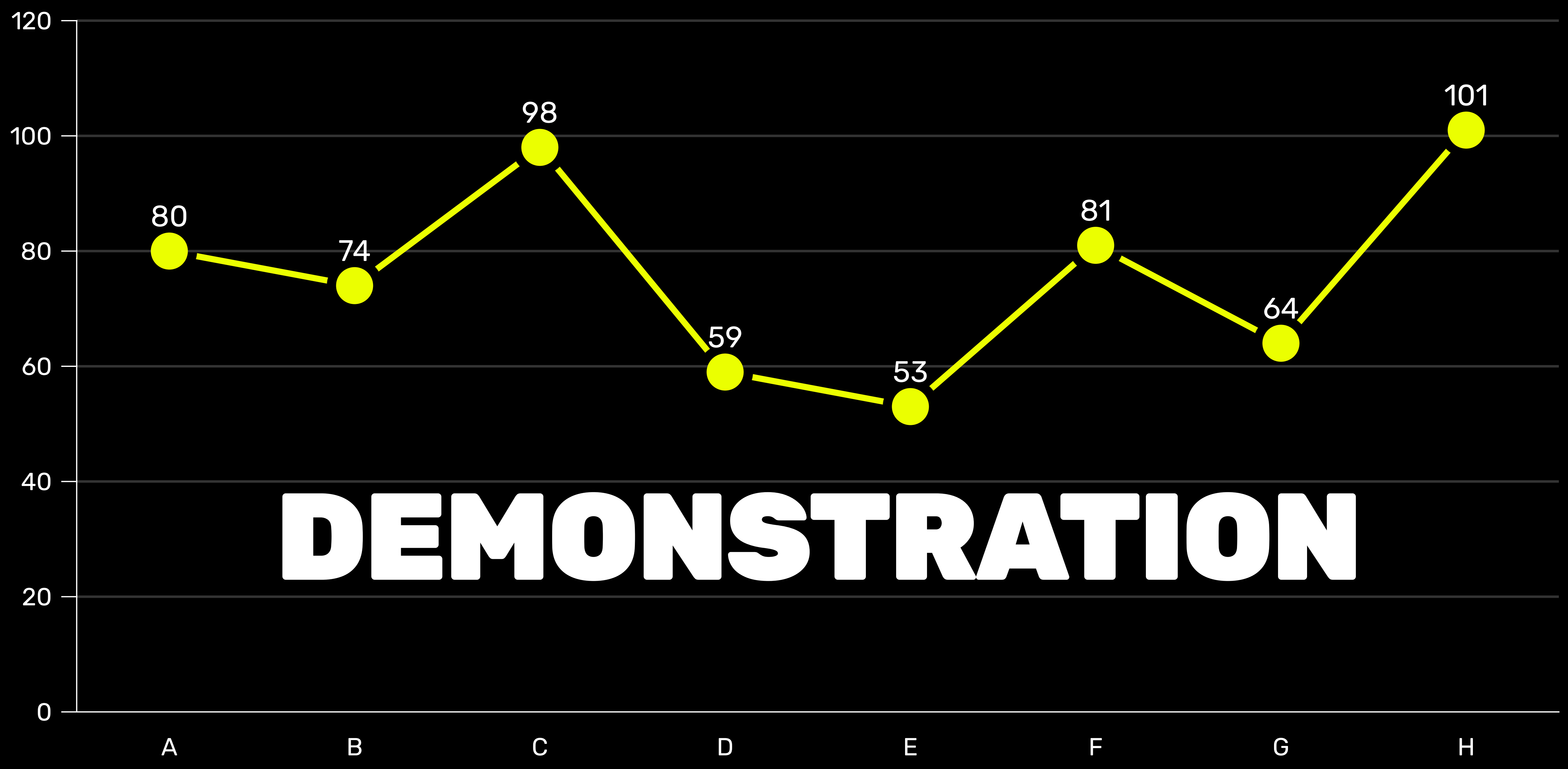
Efficient Data Handling

Accessibility

Valuable Educational Insights

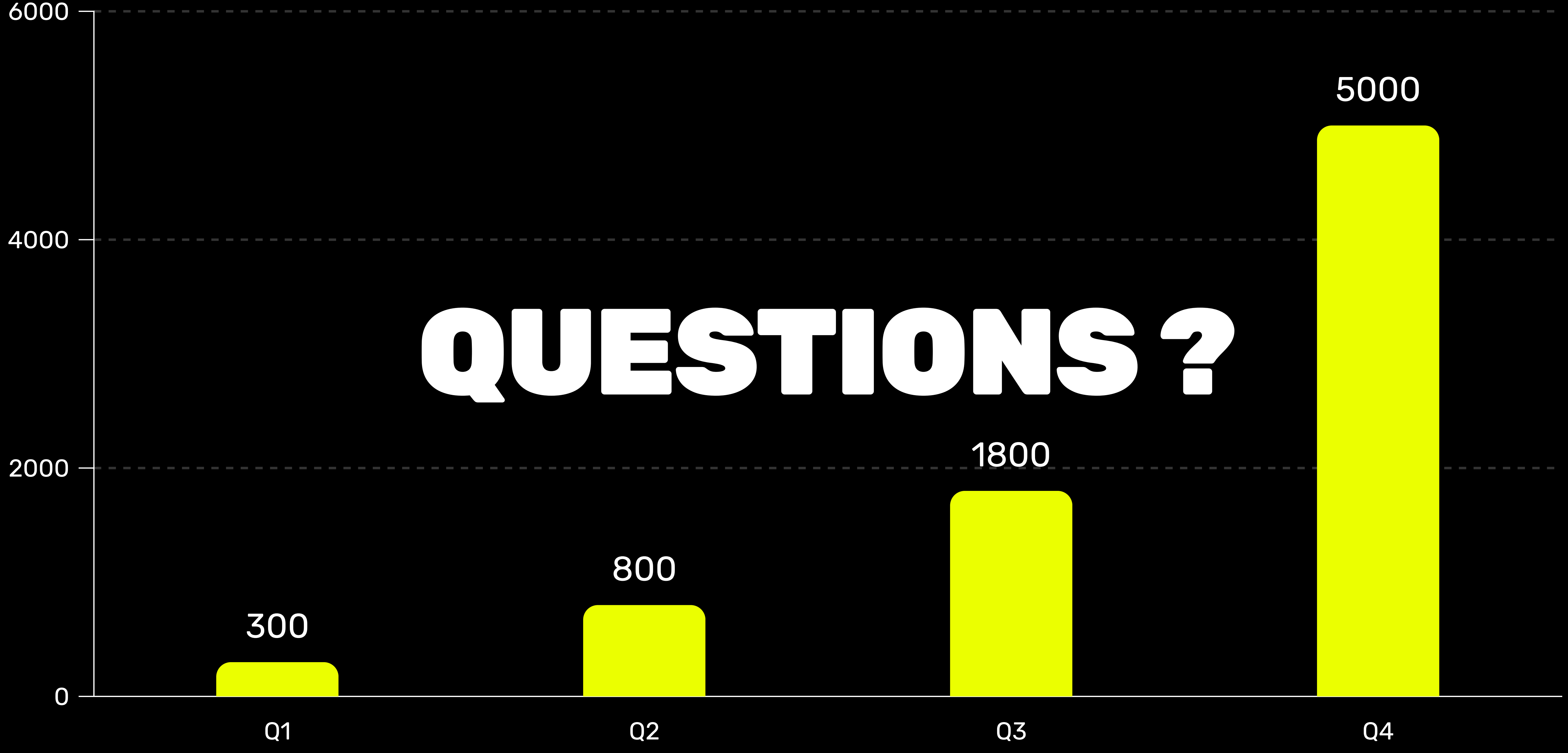
Code Reusability

Data-Driven Decisions



DEMONSTRATION

QUESTIONS ?



THANK YOU...

https://github.com/Neeraj
Madhav/Data_visualizer

https://www.linkedin.com
/in/neerajmadhav

https://youtu.be/RZeCpIH6kZE