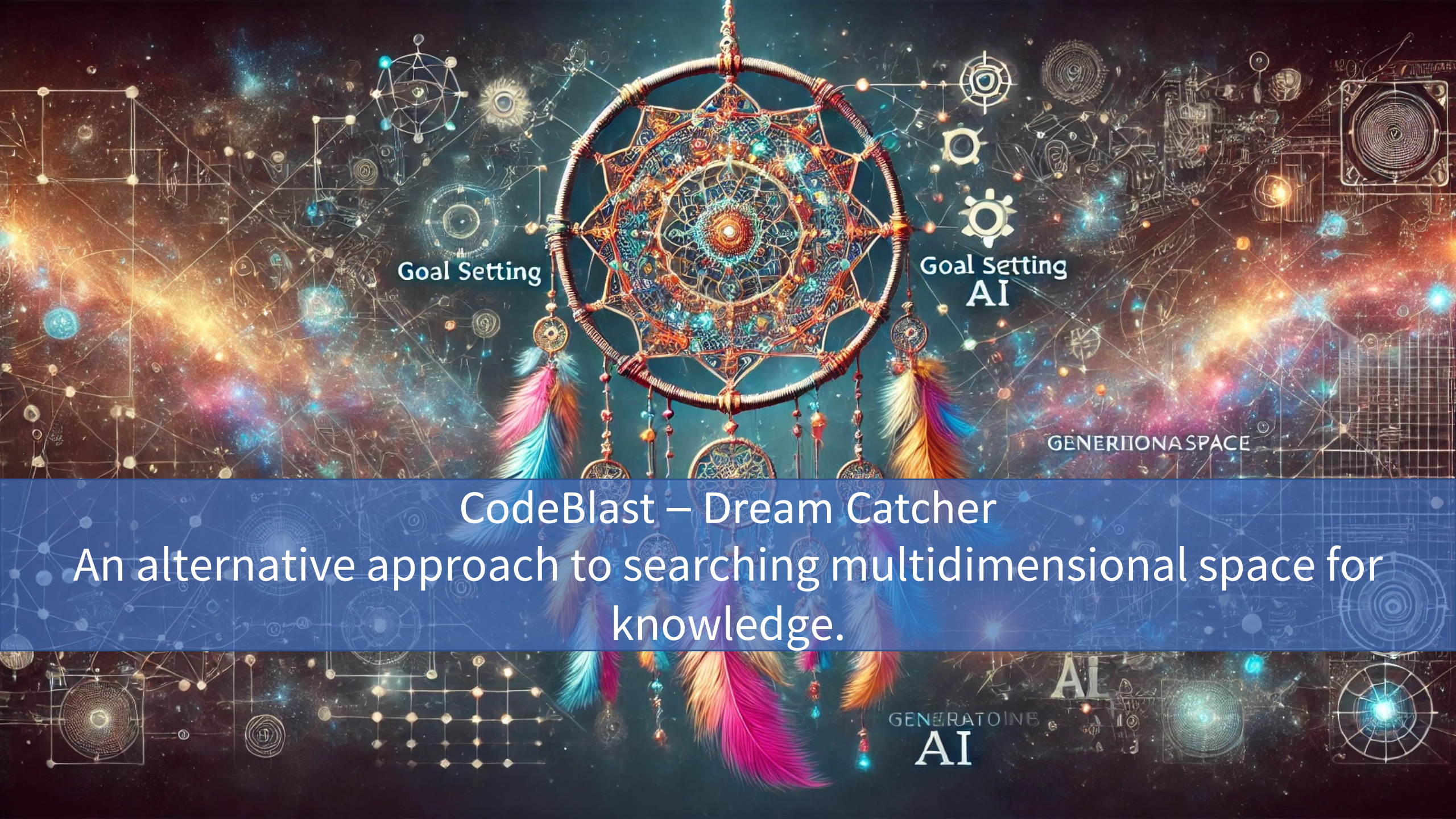


CodeBlast – Dream Catcher

An alternative approach to searching multidimensional space for knowledge.

CodeBlast Dream Catcher proposes an alternative approach to searching multidimensional space for knowledge.

CodeBlast Dream Catcher proposes an alternative approach to searching multidimensional space for knowledge based on the following 8 principles:

1.An "all possible combinations space" exists in a multidimensional space where one doesn't create knowledge but discovers it.

2.This multidimensional space is best searched with LLMs using goals, as goals carry the recipes for accomplishing them.

3.There exists a multidimensional "all possible" Codestral goal space consisting of interconnected goals resembling a graph.

4.This multidimensional goals space can best be searched by remapping it to the 2D Infinite Canvas proposed in the LabLab.ai Build Your Business StartUp Hackathon's "Navigating the Infinite Plane".

5.The infinite canvas can be created using a 50256 base number system derived from the GPT-2 tokenization labels.

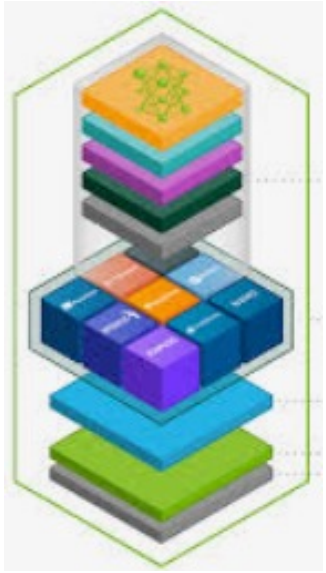
6.To avoid the costly computational expense of base number conversion, hidden and unhidden states are created in the 2D infinite plane.

7.These hidden and unhidden states correspond to the conscious and unconscious mind, proposing that the human brain uses a similar mechanism to avoid the heavy cost of base number conversion.

8.Thus, searching for knowledge becomes a simple mapping problem in 2D and 1D space in both hidden and unhidden states.

Captured Our Reasoning

Data Has Human Reasoning



Trained

Chat has Captured not just Data, but also Human Reasoning!

Searching for Knowledge

Goal

Algorithm, Outline, Recipe

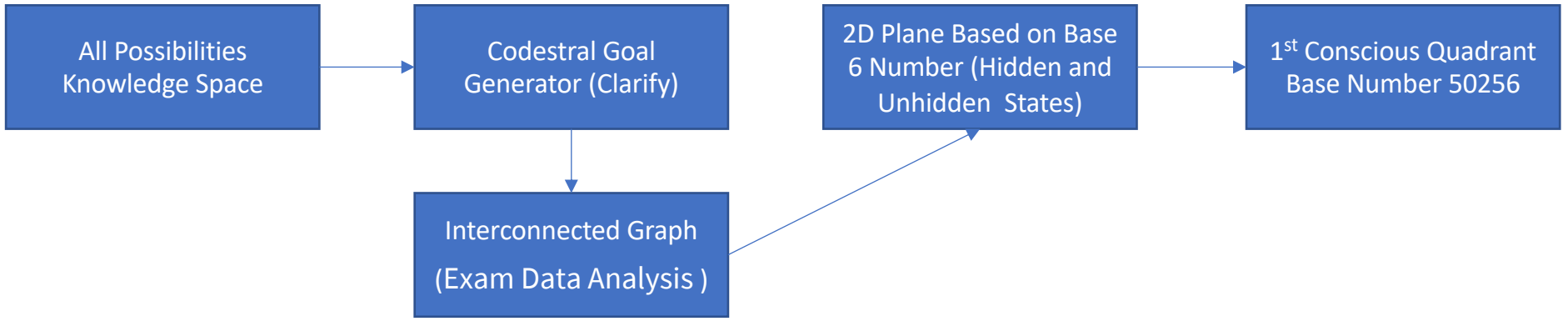
Grind Out the Details

Format Output

(Follow My Example)

Competitive Human in a Box!

Concept Flow of CodeBlast Dream Catcher



Our Application

app

Codestral Goals

Connected Goal Graph

Base 6 Example

Tokenizer Detokenizer

1st Conscious State

Plus Detokenizer

CodeBlast Dream Catcher

CodeBlast Dream Catcher proposes an alternative approach for searching multidimensional space for knowledge based on the following principles:

1. An "all possible combinations space" exists in a multidimensional space where one doesn't create knowledge but discovers it.
2. This multidimensional space is best searched with LLMs using goals, as goals carry the recipes for accomplishing them.
3. There exists a multidimensional "all possible" Codestral goal space consisting of interconnected goals resembling a graph.
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Codestral Goal Creator with Clarifai

Exam Data Analysis Example

Enter your prompt:

Generate 10 specific, industry-relevant goals for exam data analysis using Python and Pandas. Each goal should include a brief name and a one-sentence description of the task or skill. Focus on practical applications in educational assessment, covering areas such as data processing, statistical analysis, visualization, and advanced techniques.

Create Goals Using Codestral

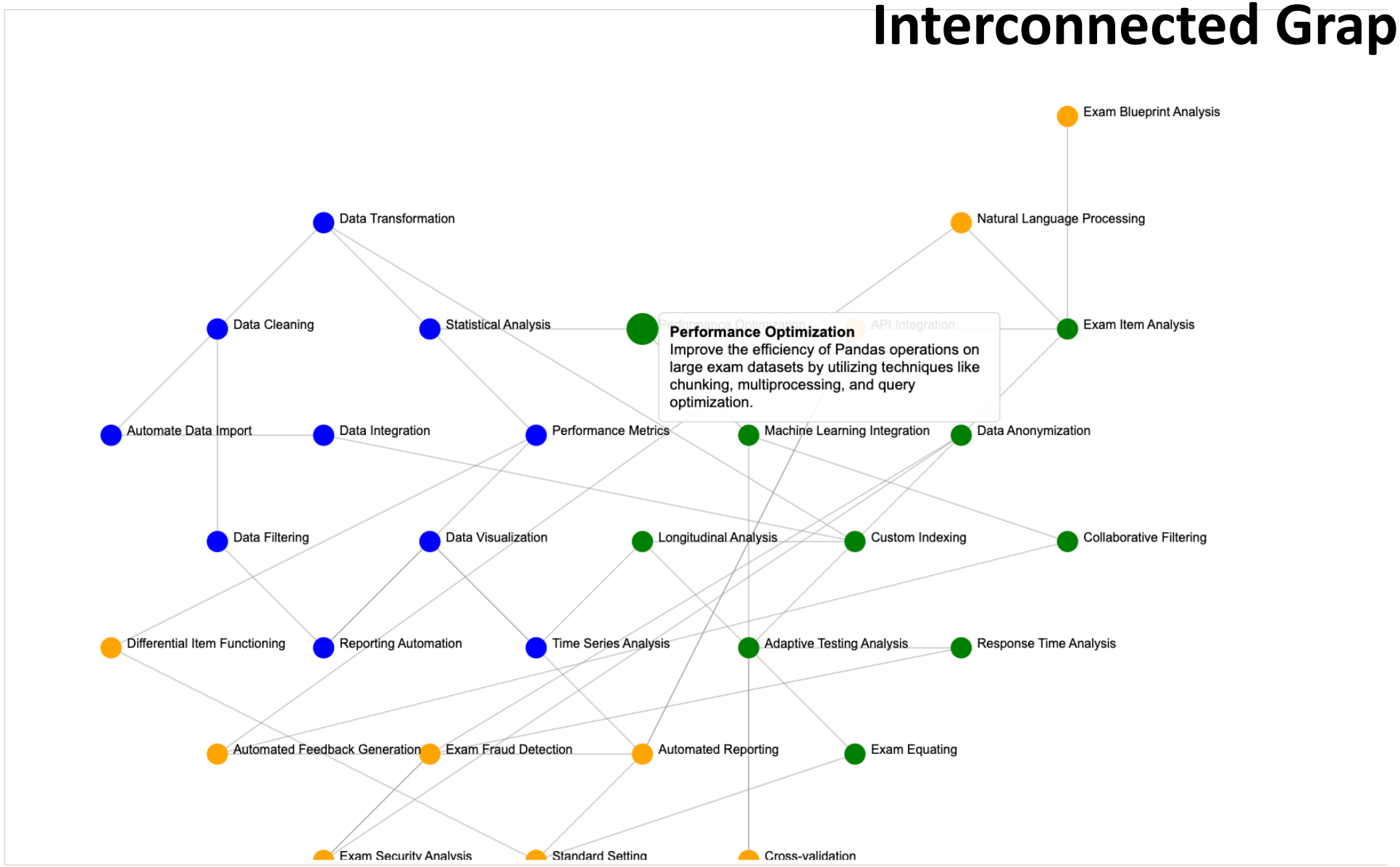
Model Prediction:

1. **Goal Name:** Efficient Data Loading and Preprocessing
    - **Description:** Develop a script to efficiently load and preprocess exam data from various formats into a usable Pandas DataFrame, handling missing values, outliers, and inconsistencies.
2. **Goal Name:** Descriptive Statistics Generation
    - **Description:** Create a function to calculate and display key descriptive statistics for each exam, such as mean, median, mode, standard deviation, and range.
3. **Goal Name:** Correlation Analysis
    - **Description:** Conduct a correlation analysis to identify relationships between different exam scores, which can help in understanding the interdependence of exam topics.
4. **Goal Name:** Hypothesis Testing
    - **Description:** Perform hypothesis testing to determine if there are significant differences in exam scores between different groups of students (e.g., gender, grade level).
5. **Goal Name:** Data Visualization
    - **Description:** Generate insightful data visualizations using libraries like Matplotlib and Seaborn to present exam data in a clear and understandable manner.
6. **Goal Name:** Item Analysis
    - **Description:** Conduct item analysis to assess the difficulty and discrimination of individual exam questions, which can help in identifying problematic questions and creating balanced exams.

Comprehensive Exam Data Analysis

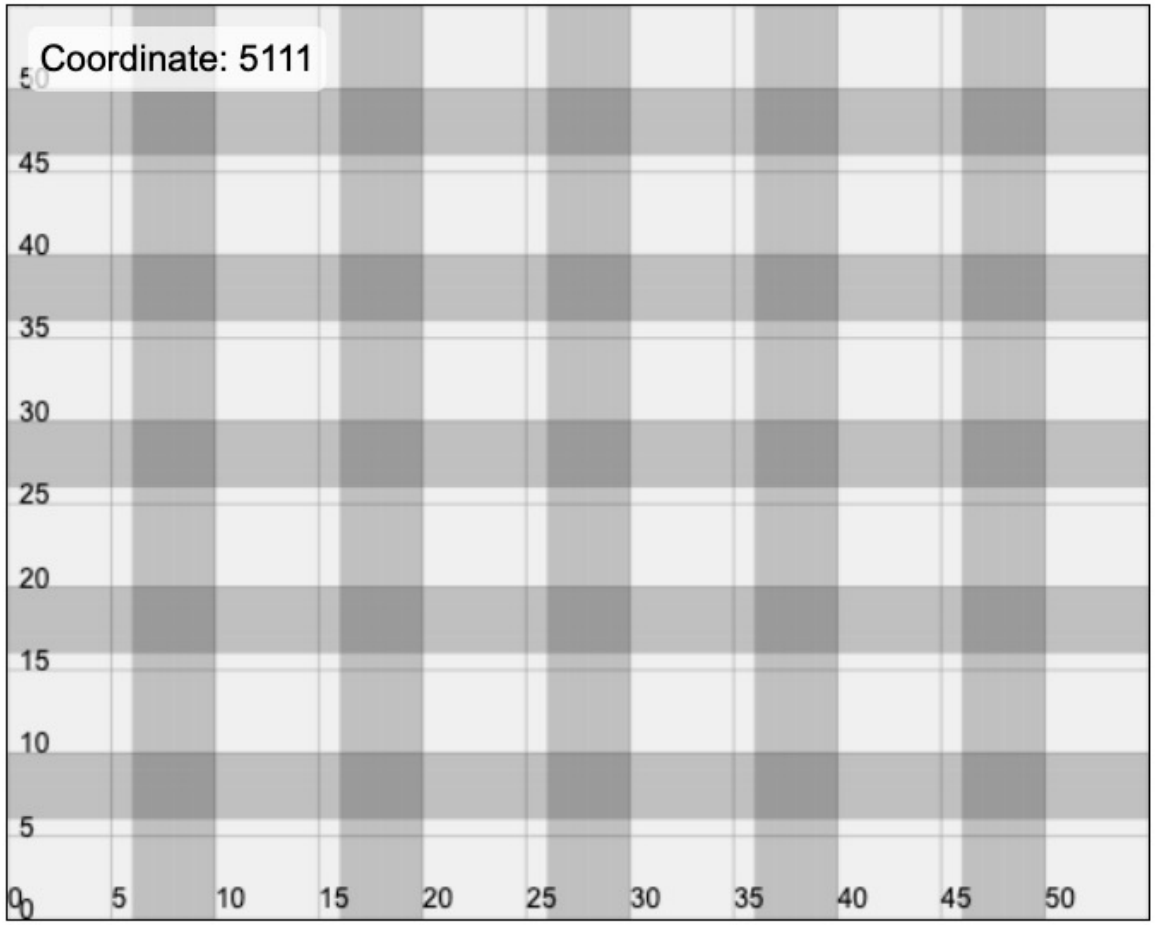
This visualization shows 30 industry goals with connections for exam data analysis.

Interconnected Graph



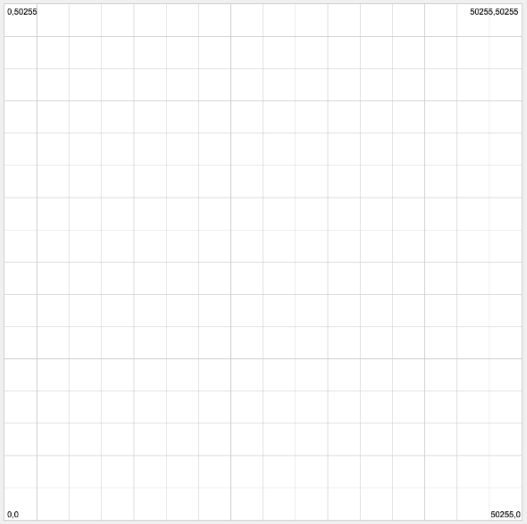
Illustrating Conscious and Unconscious States

2D Interactive Graph Base 6



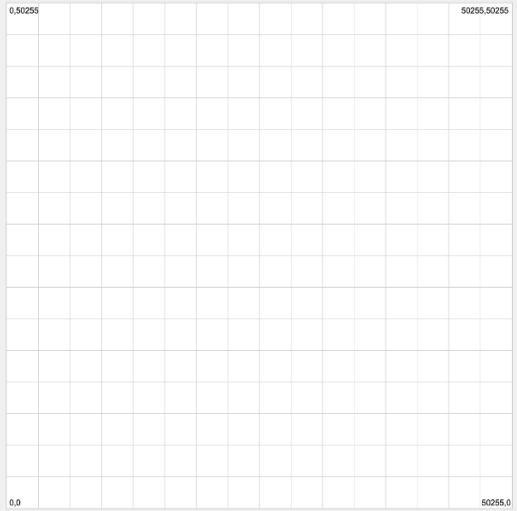
1st Conscious Quadrant

First Conscious Quadrant



Click on the grid to select a coordinate
Hover Coordinate: (X: 0, Y: 0)

First Conscious Quadrant with Detokenizer



Clicked Coordinate: 2563139610
Hover Coordinate: (X: 0, Y: 0)

Detokenization

Enter token IDs (concatenated without spaces):

2563139610

Detokenize

Grouped and cleaned token IDs:

25631 39610

Detokenized sentence:

British owl


DEMO

Business Value

Efficient Knowledge Discovery: Goal-oriented searches with LLMs align with business objectives to uncover relevant insights and innovations.

Resource Optimization: Utilizes a 2D Infinite Canvas and hidden states to reduce computational expenses and processing overhead.

Enhanced Decision-Making: Comprehensive mapping of interconnected goals improves strategic planning and simplifies problem-solving.

Scalability: Handles large-scale tasks efficiently with a 50256 base number system, ensuring robust performance.

Flexibility: Adapts to various business needs by mimicking human cognitive processes for more intuitive operation.

Strategic Advantage: Positions businesses as leaders in advanced AI knowledge discovery, providing a competitive edge over traditional methods.

Conclusion

The CodeBlast Dream Catcher approach offers significant business value through its efficient, cost-effective, and innovative method of knowledge discovery, enabling businesses to uncover actionable insights, optimize resources, enhance decision-making, and maintain a competitive edge in their industry.

Thanks to the Team