🧠 AI Thinking Mode - Data Sculpture

A Conceptual Visualization of Artificial Intelligence Cognitive Processes

An interactive 3D data sculpture that visualizes the abstract concept of AI "thinking"

🎨 About This Project

AI Thinking Mode is an artistic interpretation and conceptual visualization of what artificial intelligence might "look like" when it's processing information. This data sculpture presents AI cognition as a living, breathing entity with measurable dimensions and dynamic properties.

🌐 The Visualization

- **3D Neural Globe**: An animated sphere with dynamic shader effects representing the AI's "brain"
- **Real-time Metrics**: Live-updating cognitive measurements including:
  - **Cognitive Cycles**: Simulated processing iterations (rapidly incrementing)
  - **Latent Dimensions**: Vector space representations (32,000+ dimensions)
  - **Exploration Time**: Continuous learning duration
  - **Cognitive Signature**: Unique AI session identifiers
  - **Model Information**: Gemini 2.5 Pro integration

✨ Features

- **Interactive 3D Environment**: Built with React Three Fiber and Three.js
- **Dynamic Shader Effects**: Custom GLSL shaders creating organic, neural-like animations
- **Real-time Data Streams**: Continuously updating metrics that simulate AI cognitive load
- **Minimalist UI**: Clean, monospace typography with connecting lines between data points
- **Responsive Design**: Optimized for various screen sizes

🚀 Live Demo

Visit the live deployment: **AI Thinking Mode Data Sculpture**

🛠️ Technical Stack

- **Frontend**: React 18 + TypeScript
- **3D Graphics**: Three.js + React Three Fiber
- **Build Tool**: Vite
- **Styling**: Tailwind CSS
- **Deployment**: GitHub Pages with GitHub Actions

🏃 Run Locally

Prerequisites: Node.js 18+

1. **Clone the repository:**

```
git clone https://github.com/Shahnab/AIthinkingMode_DataSculpture.git
cd AIthinkingMode_DataSculpture
```

2. **Install dependencies:**

```
npm install
```

3. **Start development server:**

```
npm run dev
```

4. **Open in browser:** Navigate to http://localhost:3000

🎯 Concept & Inspiration

This project explores the intersection of:

- **Data Visualization** - Making abstract concepts tangible
- **AI Philosophy** - What does machine "thinking" look like?
- **Interactive Art** - Technology as a medium for expression
- **Real-time Systems** - Dynamic, living data representations

🛠️ Build & Deploy

```
# Build for production
npm run build

# Deploy to GitHub Pages (automated via GitHub Actions)
git push origin main
```

👨‍💻 Creator

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"*An attempt to visualize the invisible - the cognitive processes of artificial intelligence translated into interactive art.*"