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Team Name : Narrative IQ

Team Leader Name : Jaskirat Singh

Theme: Narrative Dashboard: Interactive AI-Generated Business Reports

Brief about the Idea:

The Narrative IQ redefines how businesses consume data by using Generative Artificial Intelligence to create dynamic, story-like business reports in real time.

-  Unlike static BI tools, this dashboard generates **automated narratives** using foundational AI models.
-  **Foundational models** ensure adaptability across domains (like finance, marketing, sports, healthcare) with natural language explanations.
-  This dramatically reduces the time needed for decision-makers to extract insights.

How is it different?

- Combines Gen AI with traditional dashboards
- Narratives evolve as data updates
- No manual data slicing required

USP

- Smart, data-driven storytelling with zero manual report writing.

List of features offered by the solution



1. AI-Generated Narrative Reports

- Foundational models generate real-time, contextual business narratives from raw data.
- Removes the need for manual interpretation of graphs.



2. Interactive Dashboard Panels

- Dynamic data visualizations (charts, KPIs) synced with narrative explanations.



3. Integration with Foundational GenAI Models

- Uses transformer-based models for generating rich natural language summaries.
- Enables human-like storytelling from structured business data.



4. Historical Report Archive

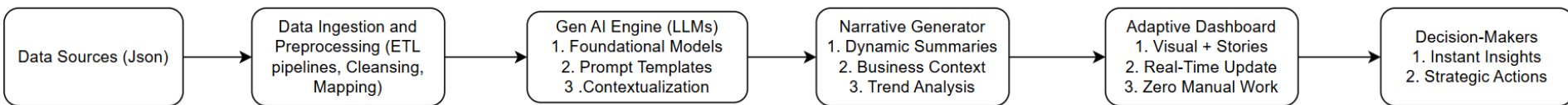
- Stores previous reports for comparison over time.



5. Trend & Anomaly Detection

- Highlights significant changes or patterns in data.

Process flow diagram or Use-case diagram



Wireframes/Mock diagrams of the proposed solution (optional)

Narrative Dashboard: Interactive AI-Generated Business Reports

+ Add Report


BUSINESS REPORT

Report Title

Report Title

Report Title

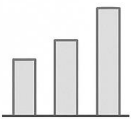
Report Title



METRIC	METRIC	METRIC

Generated Narrative

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.



Technologies used in the solution:

- 🧠 **Artificial Generative Intelligence (AGI)**
 - Utilizes foundational models (e.g., GPT-style architectures such as Gemini 1.5 Flash) to generate natural language reports.
 - Provides context-aware, human-like summaries based on data input.

- 🐍 **Python + Flask (Backend)**
 - Manages data flow, AGI integration, and API endpoints.
 - Lightweight and scalable web framework ideal for rapid prototyping.

- 🗄️ **SQLite (Database)**
 - Stores user reports, titles, timestamps, and narrative content.
 - Simple, file-based relational database — ideal for lightweight apps.

- 🌐 **HTML, CSS, JavaScript (Frontend)**
 - Presents an interactive, real-time dashboard interface.
 - Supports dynamic content rendering and report visualization.

- 📊 **Data Visualization Library**
 - Using chart.js (Visualization Library) which enables rich, interactive charts (e.g., line graphs, bar charts) for visualizing key metrics and trends.

- ☁️ **Cloud Deployment Infrastructure**
 - Using GCP for scalable, serverless deployment of Flask app.

- ⚙️ **CI/CD & Containerization**
 - Used docker (Containerization) which ensures consistent runtime environment for development, testing, and cloud deployment.

Estimated implementation cost:

💡 Prototype Phase (Local/Test Environment)

Item	Cost Estimate (USD)
Flask Web App (Open Source)	\$0
SQLite Database (Built-in)	\$0
Hosting on Local Machine	\$0
Foundational Model API (Free Tier)	\$0
Basic UI Design (Templates + CSS)	\$0
Total	\$0

🚀 Deployment Phase (Cloud-Based, Scalable)

Item	Cost Estimate (USD/month)
Cloud Hosting (i.e., GCP) and containerization (i.e., Docker)	\$0
Database Hosting	\$0
Foundational Model API (e.g., Gemini 1.5 Flash)	\$0
Total Monthly (approx.)	\$0

Snapshots of the App



Narrative IQ

Cricket Business Report

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    "city": "Colombo",
    "dates": [
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    "match_type_number": 2813,
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        "PG Liyanage"
      ],
      "tv_umpires": [
        "HDPK Dharmasena"
      ],
      "umpires": [
        "BG Jeevan"
      ]
    }
  }
}
```

Generate Report

Snapshots of the App

Generated Narrative

India Dominates Sri Lanka in Colombo ODI Thriller

This narrative recounts the India vs. Sri Lanka One Day International (ODI) match played on February 3rd, 2009, at the R. Premadasa Stadium in Colombo. India, winning the toss and electing to bat first, delivered a resounding victory, defeating Sri Lanka by a massive 147 runs. Yuvraj Singh was named Player of the Match, highlighting his crucial contribution to India's dominant performance.

****India's Powerful Innings:**** India's innings showcased a potent batting display, particularly in the early overs. While the opening partnership started cautiously, a notable spike in scoring was observed in over 3, with 11 runs accumulated, largely due to boundaries and extra runs (no-balls). This surge provided a crucial momentum shift. The middle order, anchored by Yuvraj Singh, continued the strong run rate. His consistent boundary hitting is evident in the provided data (overs 4, 5, 7, 11, 12, 14, 15, 16, 18, 19, 20, 24, 26, 27, 28 etc.), suggesting a strategic approach to maximize scoring opportunities. While there is some variation in the runs scored per over throughout the innings, there are no major drops aside from a few individual overs with lower scoring.

****Sri Lanka's Struggles:**** In contrast, Sri Lanka's chase was significantly hampered. The early dismissal of ST Jayasuriya in the first over set a negative tone. While there were periods of relative success (e.g., over 5 and over 10 showcase some boundary hitting), a considerable drop in run rate occurred in over 9, losing 14 runs compared to the previous over. This represents a significant turning point in their innings, with only a minimal recovery thereafter. The consistent low scoring in many overs (particularly towards the latter part of the innings) illustrates a struggle to maintain momentum and match the aggressive batting of the Indian team. The frequent loss of wickets also contributed significantly to their downfall.

****Key Observations and Anomalies:****

****High Run Rate (India):**** India maintained a consistently high scoring rate throughout the majority of their innings, signifying excellent batting performance and strategic shot selection.

****Early Wickets (Sri Lanka):**** Sri Lanka's early loss of key batsmen significantly hampered their ability to chase the substantial target set by India.

****Over 3 (India):**** A significant spike in runs scored in over 3, suggests a period of aggressive batting by Gambhir, potentially capitalizing on loose bowling from Sri Lanka.

****Over 9 (Sri Lanka):**** A pronounced drop in runs scored in over 9 implies a change in momentum, potentially influenced by a change in bowling strategy by India or a temporary lapse in concentration by Sri Lanka's batsmen.

****Consistent Boundary Hitting (Yuvraj Singh):**** Yuvraj Singh's consistent boundary hitting and overall solid performance as highlighted by his Player of the Match award is a key factor in India's success.

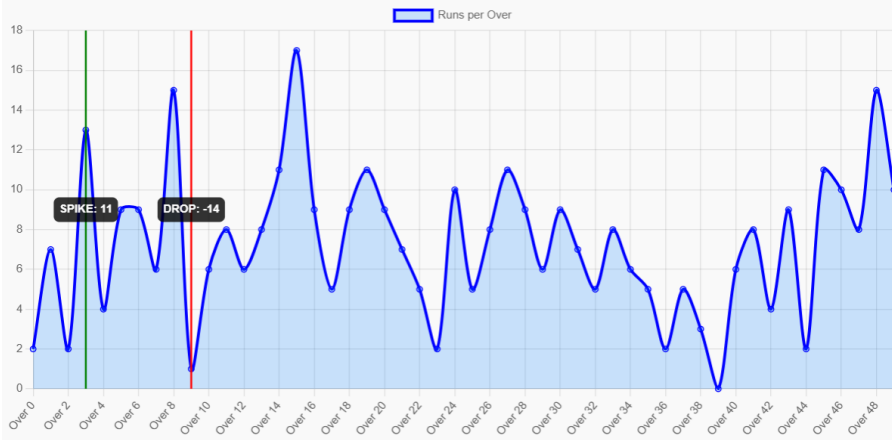
****Conclusion:**** The match highlights India's superior batting and strategic depth, coupled with Sri Lanka's inability to maintain a competitive scoring rate following their early struggles. The data suggests a significant disparity in both batting performance and strategic execution, ultimately leading to a decisive victory for India. The anomalies identified further emphasize the impact of specific over performances on the overall flow and outcome of the match.

Snapshots of the App

Key Performance Indicators (KPIs)

- **Total Runs:** 363
- **Max Over:** 49
- **Run Rate:** 7.26 runs/over

Data Visualization



Past Reports

- [2025-05-29 09:06:37] Cricket Business Report: ## India Dominates Sri Lanka in Colombo ODI Thriller This narrative recounts the India vs. Sri Lanka...
- [2025-05-29 09:05:26] Cricket Business Report: ## India's Dominant Victory in Colombo: A Business Narrative This data recounts India's resounding ...
- [2025-05-29 09:03:51] Cricket Business Analysis: ## Sri Lanka's Commanding Victory in Colombo ODI This narrative analyzes the One Day International ...
- [2025-05-29 07:25:31] Cricket Business Report: ## Sri Lanka's Dominant Victory in the 2006 ICC Champions Trophy This business narrative analyzes t...
- [2025-05-29 07:21:43] Cricket Business Report: Match 1 of the ICC Champions Trophy 2006/07 saw Sri Lanka defeat Bangladesh by 37 runs at the Punjab...
- [2025-05-29 07:20:25] Cricket Business Report: Narrative: The second One Day International (ODI) of the Pakistan tour of New Zealand in the 2010/1...
- [2025-05-29 07:18:33] Cricket Business Report: Narrative: The 5th match of the NatWest Series, South Africa's tour of England in 2008, took place ...
- [2025-05-29 07:18:05] Cricket Business Report: Narrative: The second One Day International (ODI) of the Pakistan tour of New Zealand in the 2010/1...
- [2025-05-29 07:17:37] Cricket Business Report: Narrative: The 2nd match of the Chappell-Hadlee Trophy, a men's ODI played between New Zealand and ...
- [2025-05-29 07:16:37] Cricket Business Report: Narrative: The 4th ODI of the "India in West Indies ODI Series" at the Beausejour Stadium, Gros Isl...
- [2025-05-28 19:23:45] Cricket Business report: Narrative: The second ODI of India's tour of New Zealand at Seddon Park, Hamilton, on November 27, ...
- [2025-05-28 19:03:31] Cricket Analysis Report: Narrative: The first ODI of India's tour of the United States and West Indies at Providence Stadium...
- [2025-05-28 18:50:12] Cricket Business Report: Narrative: This data represents a Men's One Day International (ODI) cricket match between Ireland a...
- [2025-05-28 18:33:39] Cricket Business Report: Narrative: The 4th ODI of the Sri Lanka in New Zealand series, played at Saxton Oval in Nelson on J...
- [2025-05-28 18:32:40] Cricket Business report: Narrative: The 4th ODI of the Sri Lanka tour of New Zealand at the Saxton Oval in Nelson on January...

Future development & scope of the App

-  **1. User Authentication & Access Control**
 - Implement secure logins, user roles, and personalized dashboards.
 - Enable role-specific views and edit permissions for reports.
-  **2. Real-Time AGI Integration**
 - Connect directly to advanced foundational models (e.g., Gemini).
 - Allow live querying of data with AI-generated analysis.
-  **3. Scalable Cloud Deployment**
 - Migrate to cloud platforms (AWS, Azure, GCP) for global accessibility.
 - Support concurrent users, auto-scaling, and robust uptime.
-  **4. Mobile App Development**
 - Launch mobile-friendly interfaces (PWA or native app).
 - Push real-time alerts and reports on-the-go.
-  **5. Multi-Source Data Integration**
 - Plug into CRMs, ERPs, and cloud storage for richer datasets.
 - Automate ETL pipelines to keep data updated continuously.
-  **6. Multilingual Narrative Support**
 - Enable business reports in global languages.
 - Use translation models for cross-border reporting.
-  **7. Plugin Ecosystem & AI Marketplace**
 - Allow third-party AI features: sentiment analysis, predictive modelling, etc.
 - Create a marketplace of AGI-powered business plugins.

Code Link: <https://github.com/jaskirat111/Narrative-IQ>

Demo Video Link:

<https://www.loom.com/share/2b54a77e40f244c69af0f9a9c5976af2?sid=d64efedb-9902-43aa-b010-282941e5878b>

App Link: <https://narrative-iq-387525145047.us-central1.run.ap>



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