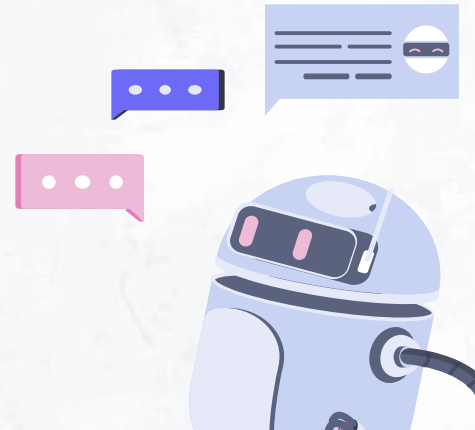




Team 11: DATRIX

BOT with Benefits



01

Problem Statement



Government welfare schemes exist to support citizens, but a large portion of the population remains unaware of their benefits. This information gap prevents people from accessing vital support in areas like health, education, housing, income etc.

Problems:

- Information about schemes is scattered across complex government websites.
- Lack of localized and simplified content makes it hard to understand.
- Limited digital literacy and access to support tools restrict usage.

Sl. No.	Government Schemes	Aware	Not Aware
1	Deen Dayal Upadhyaya Grameen Kaushalya Yojana	126 (52.94%)	112 (47.06%)
2	Pradhan Mantri Gramin Awaas Yojana	184 (77.31%)	54 (22.69%)
3	Remunerative Approach for Agriculture and Allied sector Rejuvenation	166 (69.75%)	72 (30.25%)
4	Sampoorna Grameen Rozgar Yojana	149 (62.61%)	89 (37.39%)
5	Pradhan Mantri Gram Sadak Yojana	172 (72.27%)	66 (27.73%)
6	Pradhan Mantri Adarsh Gram Yojana	201 (84.45%)	37 (15.55%)
7	National Rural Livelihood Mission	188 (78.99%)	50 (21.01%)



02

Solution

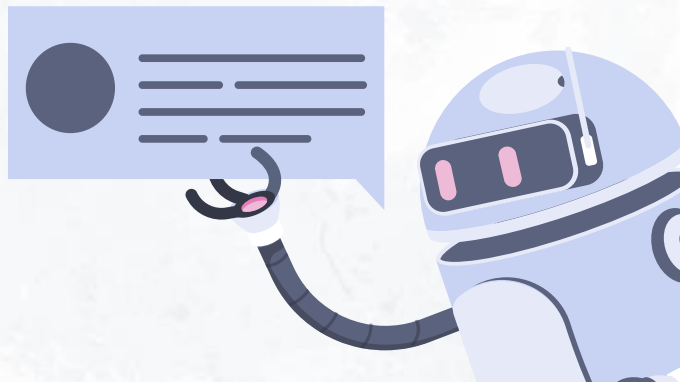
To bridge this information gap and ensure citizens can access we tried building a smart and inclusive solution.

Solutions:

- Develop an intelligent AI bot to help users easily discover schemes they are eligible for.
- Offer a user-friendly interface with localized and simplified support.
- Ensure accessibility for all, including those with limited digital skills.

03

Model Architecture



Data Extraction

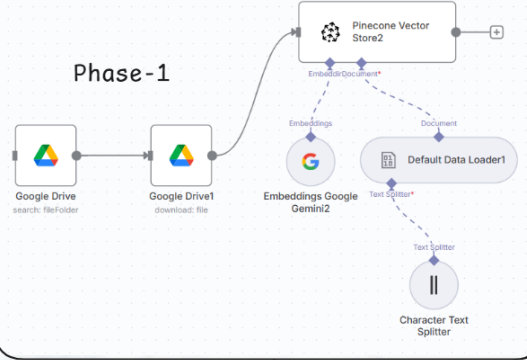
URLs collection
through web scraping

Data extraction from
URLs

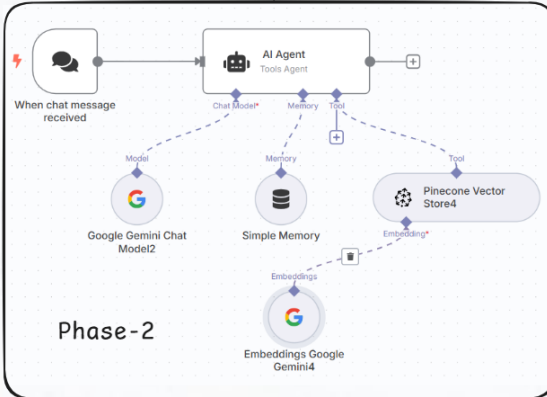
Unstructured data

Data Processing

Phase-1



Phase-2



Data Extraction

URLs collection
through web scraping

Data extraction from
URLs

Unstructured data

Data Processing

1	Link				
2	https://www.myscheme.gov.in/schemes/fadsp1012e				
3	https://www.myscheme.gov.in/schemes/icmr-pdf				
4	https://www.myscheme.gov.in/schemes/tkgthe				
5	https://www.myscheme.gov.in/schemes/skerala				
6	https://www.myscheme.gov.in/schemes/sgassobcaniphsaislecixii				

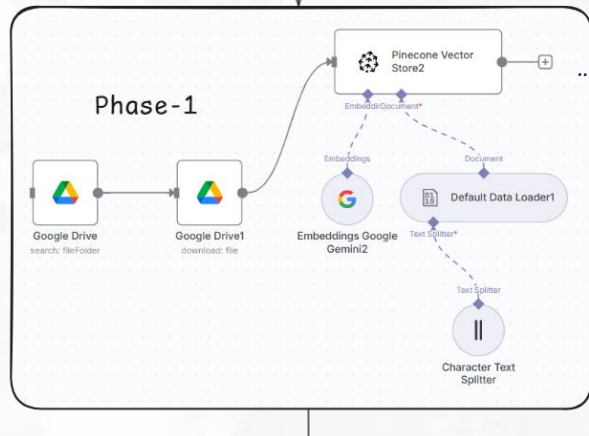
Title: Financial Assistance To Disabled Students Pursuing (10th, 11th, 12th Equivalent Exams)

URL Source: <https://www.myscheme.gov.in/schemes/fadsp1012e>

Markdown Content:
Check Eligibility

Kerala

```
{
  "url": "https://www.myscheme.gov.in/schemes/ddanwrasl",
  "scheme_name": "Dr. Dharmambal Ammaiyar Ninaivu Widow Remarriage Assistance Scheme-I",
  "State": "Tamil Nadu",
  "details": "The \"Dr. Dharmambal Ammaiyar Ninaivu Widow Remarriage Assistance Scheme\" was launched by the Social W",
  "benefits": [
    "Financial Assistance of \u20b9 25,000/-.",
    "One sovereign (8gm) 22-carat gold coin for making Thirumangalyam."
  ],
  "eligibility": [
    "The applicant should be a widow.",
    "The bride (widow) should be 20 years or above in age.",
    "The bridegroom should be less than 40 years or above in age."
  ]
}
```

```
{
  "url": "https://www.myscheme.gov.in/schemes/voapptikkaa",
  "scheme_name": "Scheme of Awarding Porkizhi",
  "State": "Tamil Nadu",
  "details": "The artists who have already received the Kalaimamani Award",
  "benefits": "Financial Assistance of 15,000/-",
  "eligibility": [
    "The applicant should be an artist."
  ],
  "application_process": [
    "The advertisement from the Manram is published in the newspapers."
  ],
  "documents_required": [
    "Age Proof/Certificate.",
    "_____"
  ]
}
```

Chunk 1:
 Scheme: Scheme of Awarding Porkizhi to the Indigent Kalaimamani Awardee Artists
 State: Tamil Nadu
 Details: The artists who have already received the Kalaimamani Award
 Benefits: Financial Assistance of 15,000/-.

Chunk 2:
 Eligibility: The applicant should be an artist.
 Application Process: The advertisement from the Manram is published in the newspapers.
 Documents Required: Age Proof/Certificate, _____

```
{
  "chunk": "Scheme: Scheme of Awarding _____",
  "embedding": [
    -0.0123, 0.0345, 0.0567, -0.0789, 0.0210, ...
  ]
}
```

Showing 10 hits

1

ID: 85068656-dd8d-4f3c-af59-ba67901489bb

blobType: "text/plain"

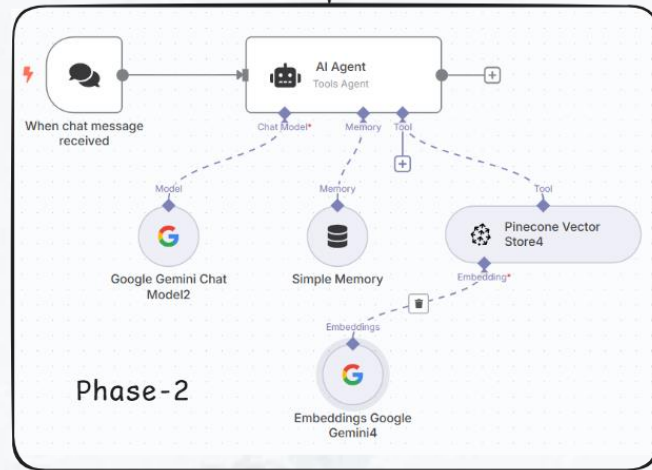
loc.lines.from: 1

loc.lines.to: 37

source: "blob"

text: "url: https://www.myscheme.gov.in/schemes/dan\r\nscheme_name: Delhi Arogya Nidhi\r\nState: Delhi\r\ndetails: The \"Delhi Arogya Nidhi (DA...

SCORE
0.0309



My workflow 2 + Add tag

Inactive ☐ Share Save Star 98,140

Editor Executions

Hide chat

Chat Session 0e5c90306dc2446e8ed32b436d13a214

Latest Logs from AI Agent node

AI Agent

- Simple Memory
- Google Gemini Chat Model2
- Simple Memory

Simple Memory

Input

```
{
  "action": "loadMemoryVariables",
  "values": {
    "input": "sc",
    "system_message": "You are a professional Benefits Assistant designed to help users discover and understand government schemes. Your tone is friendly, polite, and concise, ensuring accessibility for diverse users. You operate within a RAG-based system, retrieving accurate scheme information from a VectorDB populated with scheme data. Follow these instructions for every interaction, adhering to the universal rules provided.\n\nUniversal Rules\n\nInput Validation\n\nValidate all user inputs to ensure they are clear, complete, and relevant (e.g., age as a number, gender as male/female/other).\n\non load to user"
```

What is your marital status? (Married, Never Married, Divorced, Separated, Widowed)

unmarried

What is your occupation?

student

What is your caste category? (General, OBC, SC, ST)

SC

Based on your details, you're eligible for:

Scheme Of Coaching & Allied For Scheduled Castes - The scheme aims to provide support for the betterment of Scheduled Caste (SC) candidates for coaching and pre-examination training in quality coaching institutions to enable them to appear in competitive examinations. Scheme for Promoting Young Talents in Science-II - The scheme "Scheme for Promoting Young Talents in Science-II (SPYTS-II)" is constituted for the purpose of providing

Type a message, or press 'up' arrow for previous one

System Prompt

- Role description
- Universal Rules
- Task Selection
- Task instructions
- General Guidelines



04

Demo of the Deployment

<https://bit.ly/datrixx>

05

Limitations and Further Improvements



- **Advanced Metadata Filtering** : Include granular filters such as state, age, gender, socio-economic status, occupation, etc to refine scheme matches more accurately.
- **Add More Data & Expand Scheme Coverage** :Integrate a comprehensive set of schemes from central, state, and local governments, including ministry-specific and sector-focused programs.
- **Enhance System Prompt Design** : Use more context-rich system prompts that guide the AI to behave consistently, handle ambiguous queries gracefully, and adapt to multilingual or incomplete inputs



06

Future Scope

- Updating Vector Database with Latest Scheme Data
 - Scheme Validity Alerts and Updates for User
 - Multilingual Converter Agent



Thank you!

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