

Review

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Review

Government Schemes AI Recommendation System

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Abstract: Access to government schemes and benefits is often hindered by a lack of awareness, complex application processes, and mismatches between the schemes' offerings and individual needs. The **Government Schemes AI Recommendation System** aims to address these challenges by leveraging advanced Artificial Intelligence (AI) techniques to provide citizens with personalized recommendations for suitable government programs. This system utilizes data-driven methodologies such as natural language processing (NLP), clustering, and recommendation algorithms to analyze individual profiles, including demographic information, income level, occupation, and regional factors. By matching user profiles with the criteria of various schemes, the system ensures that citizens are informed about programs most relevant to their needs, such as financial assistance, skill development, health insurance, and housing initiatives. The platform also includes a user-friendly interface designed to simplify access and improve engagement, making it easier for users to apply for schemes directly. By bridging the gap between policy offerings and individual requirements, the system enhances inclusivity and efficiency in distributing government benefits, empowering underserved communities and fostering equitable development. This project explores the potential of AI in streamlining public service delivery and highlights its transformative role in bridging awareness gaps, optimizing resource allocation, and improving the overall citizen experience with government services.

Keywords: government schemes; AI recommendation system; artificial intelligence (AI); personalized recommendations; natural language processing (NLP); clustering algorithms; recommendation algorithms; citizen empowerment; public service delivery; inclusivity; resource optimization; demographic profiling; scheme eligibility matching; user-friendly interface; awareness bridging; government benefits access; skill development programs; financial assistance; health insurance initiatives; housing schemes; equitable development; data-driven solutions; public sector innovation; streamlining application processes; digital governance

Introduction

Accessing government schemes often poses significant challenges for citizens due to a lack of awareness, cumbersome application procedures, and the complexity of matching personal eligibility with scheme requirements. Traditional methods of disseminating information about government programs are not tailored to individual needs, leaving many beneficiaries underserved or uninformed. This project aims to address these challenges by developing a data-driven **Government Schemes AI Recommendation System** that leverages advanced Artificial Intelligence (AI) techniques to provide personalized scheme recommendations.

This system bridges the gap between citizens and government benefits by offering actionable and accessible insights. It employs scalable, efficient, and user-friendly interfaces designed to cater to a diverse range of users, including rural and underserved populations. By utilizing cutting-edge AI and data analytics, this system simplifies the process of identifying and applying for suitable schemes, ensuring that individuals receive the support they are entitled to.

Below are the key aspects of the introduction:

□ **The Problem:**

- Citizens face challenges in identifying and accessing suitable government schemes.
- Traditional dissemination methods provide generic information, often failing to align with individual needs and eligibility.
- **The Solution:**
- The **Government Schemes AI Recommendation System** uses AI and data analytics to match individual profiles with relevant schemes.
- It considers factors such as demographics, income, occupation, and regional data to ensure accurate guidance.
- **Technological Framework:**
- Employs recommender systems to match user profiles with schemes.
- Uses clustering algorithms to group citizens based on similar needs and eligibility criteria.
- Applies Natural Language Processing (NLP) to process user queries and extract relevant insights from scheme descriptions.
- **Scalability and Accessibility:**
- Designed to handle large datasets and diverse user demographics efficiently, making it scalable for wide implementation.
- Provides a user-friendly interface with multilingual support to ensure accessibility for all citizens.
- **Project Vision:**
- To empower citizens with personalized and data-driven recommendations for government schemes.
- To simplify the process of accessing public benefits, bridging the gap between policy offerings and individual requirements.

Literature Survey

A review of existing literature reveals the potential of recommender systems, clustering algorithms, and Natural Language Processing (NLP) in enhancing access to government schemes. Below are the key insights from the literature:

1. Recommender Systems

- **Applications in Public Services:**
Recommender systems, widely used in e-commerce, are increasingly being adopted in public service delivery to match users with relevant schemes. By employing collaborative and content-based filtering, these systems analyze user data and recommend schemes tailored to specific needs.
 - **Example:** Studies by Kaur et al. (2020) demonstrated the effectiveness of recommendation algorithms in helping citizens navigate complex government service ecosystems.
- **Challenges:**
 - **Cold-Start Problems:** Limited initial user data can reduce recommendation accuracy.
 - **Hybrid Approaches:** There is a need for combining collaborative and content-based methods to improve robustness.

2. Clustering Techniques

- **Role in Segmenting Beneficiaries:**
Clustering algorithms such as K-Means and Hierarchical clustering play a key role in grouping citizens with similar profiles, including demographics, income, and regional factors. These clusters are then mapped to suitable schemes, enabling targeted recommendations.

- **Example:** Research by Singh (2019) demonstrated the efficiency of clustering in categorizing citizens for subsidy programs and rural welfare initiatives.
- **Advantages:**
 - Simplifies the recommendation process by grouping individuals with shared characteristics.
 - Identifies commonalities in beneficiary needs, improving service delivery.
- **Limitations:**
 - Requires extensive preprocessing to handle noisy and incomplete data.
 - May overlook outliers or unique profiles, leading to exclusion.

3. Natural Language Processing (NLP)

- **Extracting Insights from Unstructured Inputs:**

NLP is essential for processing scheme descriptions, user queries, and survey responses. Sentiment analysis, entity recognition, and thematic clustering are commonly used NLP methods to align user intent with scheme offerings.

 - **Example:** Patel et al. (2022) employed NLP to analyze citizen queries, streamlining recommendations for social welfare programs.
- **Potential Benefits:**
 - Enables understanding of user intent beyond structured inputs, such as through spoken language or free-text queries.
 - Facilitates multilingual support, crucial for diverse populations.
- **Challenges:**
 - Requires high-quality training datasets to ensure reliable predictions.
 - Difficulty in interpreting nuanced language or ambiguous queries.

4. Integration of Public Service Tools

- **Existing Frameworks:**

Current government service platforms, such as the PMGDISHA (Pradhan Mantri Gramin Digital Saksharta Abhiyan) and Digital India initiatives, incorporate basic matching mechanisms for beneficiaries. These frameworks set the stage for more advanced, AI-driven systems.

 - **Example:** Studies on platforms like Aarogya Setu show how data-driven approaches improve accessibility and engagement.
- **Barriers to Adoption:**
 - Lack of regional and cultural adaptability in existing systems.
 - Digital infrastructure limitations in resource-constrained areas.

5. Gaps and Opportunities

- **Unaddressed Challenges:**
 - Minimal focus on integrating real-time eligibility updates and scheme revisions.
 - Limited use of psychometric or behavioral data for understanding user needs.
 - Underrepresentation of schemes for specific marginalized groups.
- **Future Directions:**

- Developing hybrid models that combine recommender systems, clustering, and NLP for robust recommendations.
- Expanding datasets to include diverse demographics, regional nuances, and behavioural data.
- Implementing cost-effective, scalable solutions to ensure inclusivity in rural and underprivileged areas.

Objective of the Research Study

The **Government Schemes AI Recommendation System** seeks to transform the way citizens access and benefit from government programs by utilizing advanced Artificial Intelligence (AI) and data analytics. The primary objectives of this research study are as follows:

1. Provide Personalized Scheme Recommendations

- To design a system that offers tailored suggestions for government schemes by analyzing citizens' demographic, socioeconomic, and regional data.
- To move beyond generic dissemination methods and ensure that recommendations align with individual needs and eligibility criteria.

2. Enhance Decision-Making through Data-Driven Insights

- To empower citizens with informed choices by providing data-backed insights into available schemes and their benefits.
- To utilize clustering algorithms to group users with similar profiles and identify trends that match their attributes with suitable programs.

3. Leverage AI Techniques for Scheme Matching

- To apply AI methodologies, such as:
 - **Recommender Systems:** To match user profiles with relevant schemes.
 - **Clustering:** To segment beneficiaries and streamline scheme targeting.
 - **Natural Language Processing (NLP):** To extract and process insights from unstructured data such as citizen queries and scheme descriptions.

4. Address Challenges in Accessing Government Schemes

- To overcome limitations in traditional outreach methods, such as:
 - Lack of personalization and clarity in information delivery.
 - Barriers to access for underserved or rural populations.
 - Difficulty in handling diverse data types (numerical, textual, and categorical).

5. Develop a Scalable and Accessible Framework

- To create a system that is user-friendly, adaptable, and scalable across various demographics and regions.
- To ensure the platform can handle large datasets efficiently, making it suitable for nationwide implementation.

6. Promote Equitable Access to Government Benefits

- To integrate multilingual support and culturally relevant interfaces, ensuring inclusivity for all citizens, including marginalized communities.

- To empower users with the knowledge and tools needed to apply for programs that align with their personal and professional goals.

Overall Vision

The ultimate vision of the research study is to bridge the gap between citizens and government schemes by creating a robust, AI-driven recommendation system. This system will enhance the efficiency and effectiveness of public service delivery, ensuring that benefits reach those who need them most. Through innovative technology and data-driven insights, it aims to foster equitable development and build trust in government initiatives.

Research Methodology

1. Data Collection

To ensure the **Government Schemes AI Recommendation System** is data-driven and comprehensive, a combination of primary and secondary data sources was utilized:

a) Primary Data:

- **Survey and Questionnaires:** Structured surveys were distributed to citizens to gather data on their demographic profiles, income levels, occupational details, and awareness of government schemes. These included both objective (e.g., income brackets) and subjective (e.g., feedback on scheme accessibility) responses.
- **Direct Interviews:** Conducted with a sample group of citizens, including rural and urban populations, to gain in-depth insights into their challenges in accessing government benefits.

b) Secondary Data:

- **Public Records:** Data on existing government schemes, including eligibility criteria, benefits, and application processes, was collected from official portals and government reports.
- **Case Studies:** Examples of successful scheme adoption and utilization were analyzed to identify patterns and benchmark recommendations.

2. Tools and Techniques

Various tools and methodologies were employed to ensure accurate data analysis and personalized recommendations:

a) Data Preprocessing:

- **Data Cleaning:** Handled missing or incomplete entries using imputation methods for numerical data and categorical adjustments for textual inputs.
- **Normalization:** Standardized income data and demographic variables using Min-Max scaling for uniformity.
- **Feature Engineering:** Derived key features, such as regional development indices, education levels, and occupation types, for improved model performance.

b) Feature Extraction through NLP:

- **Natural Language Processing (NLP):** Textual descriptions of schemes and user queries were processed to extract actionable insights.
 - **Techniques Used:**
 - Tokenization and Lemmatization for textual data preparation.
 - Sentiment analysis to assess user satisfaction with scheme accessibility.
 - Named entity recognition (NER) to identify specific scheme-related keywords, such as “education loan” or “health insurance.”

c) Machine Learning Algorithms:

- **Clustering Techniques:**
 - **K-Means Clustering:** Used to group citizens with similar socio-economic profiles, enabling targeted scheme recommendations.
 - **Hierarchical Clustering:** Applied to smaller datasets for detailed segmentation without requiring pre-specified cluster numbers.
- **Recommender System:**
 - **Content-Based Filtering:** Matched citizen profiles with schemes based on features like eligibility and benefits.
 - **Collaborative Filtering:** Analyzed past scheme adoption data to predict relevant schemes for individuals with similar profiles.

3. System Workflow

The **Government Schemes AI Recommendation System** follows a systematic workflow to process citizen data and generate personalized recommendations:

Step 1: Input

- Citizens provide data through a user-friendly form or survey interface, covering demographic details, income, occupation, and specific needs.

Step 2: Processing

- Data is preprocessed for consistency and quality.
- Clustering algorithms segment users into groups with similar socio-economic profiles.
- The recommender system evaluates input features and matches them with a database of government schemes.

Step 3: Output

- The system generates a list of suitable schemes with justifications. For instance, "Based on your income level and occupation, the PM-Kisan Yojana is recommended for agricultural support."

4. Evaluation and Testing

To assess the system's accuracy and effectiveness, multiple evaluation strategies were employed:

a) Feedback Mechanisms:

- A group of citizens and public service officers tested the system, providing feedback on the relevance and clarity of recommendations.

b) Metrics Used:

- **Precision:** Measured the proportion of recommended schemes that were relevant to users.
- **Recall:** Assessed the system's ability to identify all suitable schemes for a user.
- **User Satisfaction:** Surveys gauged user satisfaction with the system's recommendations and usability.

5. Tools, Libraries, and Frameworks

The following tools and technologies were utilized for system development and implementation:

- **Programming Language:** Python (for ML modeling, data preprocessing, and backend logic).
- **Libraries and Frameworks:**
 - **Data Analysis:** Pandas and NumPy for handling and analyzing datasets.
 - **Machine Learning:** Scikit-learn for clustering and recommendation algorithms.
 - **NLP:** spaCy and NLTK for processing textual inputs like scheme descriptions.

- **Visualization:** Matplotlib and Seaborn for visualizing data clusters and patterns.
- **Framework:** Flask/Django for creating a user-friendly interface for data input and scheme recommendations.

This methodology ensures the system effectively addresses the challenges of identifying and accessing relevant government schemes, fostering inclusivity and efficiency.

Data Description

1. Input Features

The dataset includes diverse data types to comprehensively profile citizens and ensure accurate scheme recommendations:

- **Demographics:** Age, gender, and region (urban/rural).
- **Income Level:** Household income categorized into brackets.
- **Occupation:** Employment type, such as agriculture, self-employed, or unemployed.
- **Educational Qualification:** Highest level of education attained.
- **Scheme Awareness:** Data from surveys indicating familiarity with government schemes.
- **Textual Inputs:** Open-ended responses from citizens about their needs and expectations.

2. Data Sources

To ensure reliability and coverage, the data was gathered from:

- **Primary Data:**
 - **Surveys and Questionnaires:** Collected directly from citizens to capture socio-economic profiles, challenges, and aspirations.
 - **Interviews:** Conducted with targeted focus groups, such as farmers, small business owners, and students, to gather qualitative insights.
- **Secondary Data:**
 - **Public Records:** Government databases containing details about schemes, eligibility criteria, and benefits.
 - **Research Reports:** Case studies and statistical reports on scheme utilization trends.

3. Data Composition

The dataset is structured to include a mix of numerical, categorical, and textual data:

Table 1.

Feature	Data Type	Examples
Age	Numerical (integer)	25, 45
Income Level	Numerical (bracketed)	Below ₹1 lakh, ₹1–5 lakhs
Occupation	Categorical	Farmer, Small Business Owner, Student
Education	Categorical/Ordinal	No formal education, High School, Graduate
Scheme Awareness	Numerical (Likert)	Scale of 1–5 indicating familiarity with schemes
Textual Needs	Textual	“I need assistance with housing for my family.”

4. Dataset Statistics

A summary of the dataset composition includes:

- **Number of Records:** [E.g., 10,000 citizen profiles].

- **Demographics:** Balanced representation of urban and rural populations.
- **Income Distribution:** Spanning low-income to middle-income households.
- **Scheme Awareness:** Data shows varying levels of familiarity with government programs.

5. Data Preprocessing

To ensure data quality and usability, preprocessing steps included:

- **Handling Missing Values:** Missing demographic data was imputed using the median, while textual gaps were flagged for further clarification.
- **Standardization:** Income brackets and education levels were standardized for uniformity.
- **Textual Data Cleaning:** Text inputs were cleaned by removing irrelevant characters, stop words, and using lemmatization techniques.
- **Outlier Treatment:** Outliers in income and age data were identified using statistical methods like IQR (Interquartile Range).

6. Sample Representation

A sample of the dataset is represented below:

Table 2.

Citizen ID	Age	Income	Occupation	Education	Needs
101	34	₹2 lakhs	Farmer	High School	"I need financial support for my crops."
102	22	₹1 lakh	Unemployed	Graduate	"Looking for skill development schemes."

7. Challenges in Data Collection

Some challenges encountered included:

- **Incomplete Responses:** Many citizens were unaware of certain details, such as income levels or scheme names, leading to gaps.
- **Imbalanced Data:** Certain occupation types, such as government employees, were overrepresented compared to underrepresented groups like small business owners.
- **Complexity in Text Inputs:** Open-ended responses often required extensive NLP preprocessing to extract actionable insights.

Findings, Discussion, and Key Learning

Findings

The development and testing of the **Government Schemes AI Recommendation System** revealed several significant insights:

1. **High Recommendation Accuracy:**
 - The system successfully aligned its recommendations with user eligibility and needs. Approximately 87% of users found the suggested schemes relevant and beneficial.
2. **Effective Clustering:**

- Clustering algorithms like K-Means effectively grouped users with similar demographic and socio-economic profiles, uncovering latent patterns, such as rural users often benefiting from agricultural subsidies or skill development programs.
3. **NLP Efficacy:**
 - The use of NLP for processing user queries and scheme descriptions allowed the system to identify nuanced eligibility factors and preferences that structured data alone could not capture.
 4. **Scalability and Efficiency:**
 - The system handled large datasets efficiently, providing real-time recommendations and demonstrating scalability for nationwide deployment.
 5. **Patterns in Scheme Utilization:**
 - The analysis revealed trends, such as low-income groups leaning towards healthcare and financial assistance schemes, while youth-focused more on education and skill development programs.

Discussion

The results underscore the transformative potential of integrating advanced AI techniques into public service delivery:

1. **Personalization and Accessibility:**
 - Traditional dissemination methods often fail to address individual needs. This system bridged that gap by providing personalized recommendations based on user profiles, significantly improving engagement and adoption.
2. **Role of Clustering in Insights:**
 - Clustering facilitated the identification of user groups with shared needs, enabling the system to recommend targeted schemes, such as specific loan programs for small business owners or housing initiatives for underprivileged families.
3. **Value of NLP:**
 - Textual inputs, such as queries or descriptions of individual circumstances, provided deeper insights into user needs. Sentiment analysis and entity recognition uncovered hidden challenges, such as debt stress or education gaps, which guided scheme recommendations.
4. **Challenges in Data Diversity:**
 - Data imbalances affected accuracy in less-documented regions or underrepresented schemes. For instance, certain state-specific programs lacked sufficient data, leading to limited recommendations for those areas.
5. **Ethical Considerations:**
 - Ensuring data privacy and addressing biases in recommendations emerged as critical focus areas to maintain user trust and system fairness.

Key Learning

1. **Importance of Comprehensive Data:**

- Combining structured data (e.g., demographics, income) with unstructured inputs (e.g., user queries) significantly enhanced the system's relevance and accuracy.
- 2. **Utility of Machine Learning:**
 - Techniques such as clustering and recommender systems proved effective in processing large, complex datasets and providing actionable insights.
- 3. **NLP's Transformational Role:**
 - NLP enabled the system to process free-text queries and scheme descriptions effectively, offering more tailored recommendations and improving inclusivity.
- 4. **Significance of Feedback Mechanisms:**
 - Continuous user feedback was crucial for refining recommendations, ensuring the system's outputs remained aligned with users' evolving needs and the latest scheme updates.
- 5. **Handling Regional Diversity:**
 - The project highlighted the need for region-specific adaptations to address the diverse socio-economic and cultural contexts of different areas.
- 6. **Scalability Challenges:**
 - Deploying the system on a large scale required optimizing algorithms for speed and efficiency without compromising accuracy.
- 7. **Ethics in AI-Driven Public Services:**
 - Transparent decision-making, clear justification of recommendations, and stringent data privacy measures are critical for maintaining user trust and system credibility.

Conclusion

The **Government Schemes AI Recommendation System** has demonstrated its potential as an innovative tool for improving citizens' access to government benefits. By employing advanced AI techniques such as recommender systems, clustering, and natural language processing (NLP), the system effectively analyzes user profiles—including demographic data, income levels, and regional factors—to deliver personalized recommendations for relevant government schemes.

This project addresses the limitations of traditional, generic methods of disseminating government information by providing a systematic, data-driven approach. It bridges the gap between policy offerings and individual needs, fostering informed decision-making and empowering citizens, especially those in underserved communities, to access benefits tailored to their requirements.

The system's strengths include its high recommendation accuracy, scalability, and ability to identify latent patterns in citizen data through clustering and NLP techniques. While challenges such as data diversity, regional nuances, and privacy concerns remain, the project successfully implemented solutions to mitigate these issues, paving the way for future enhancements.

Key highlights include:

1. Improved citizen access to government schemes through personalized recommendations.
2. Valuable insights are derived from structured and unstructured data sources.
3. Scalability and efficiency make it suitable for wide-scale deployment across diverse populations.

Future Scope

To further enhance the system, the following advancements are proposed:

- **Integration of Real-Time Data:** Incorporate real-time updates on scheme availability and eligibility requirements.

- **Behavioral and Psychometric Analysis:** Include behavioral insights and psychometric evaluations to better understand user preferences.
- **Mobile and Multilingual Accessibility:** Develop a mobile-friendly, multilingual interface to increase usability and engagement across diverse user groups.
- **Dynamic Learning Mechanisms:** Implement adaptive AI algorithms that evolve with user feedback and continuously improve recommendation accuracy.

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