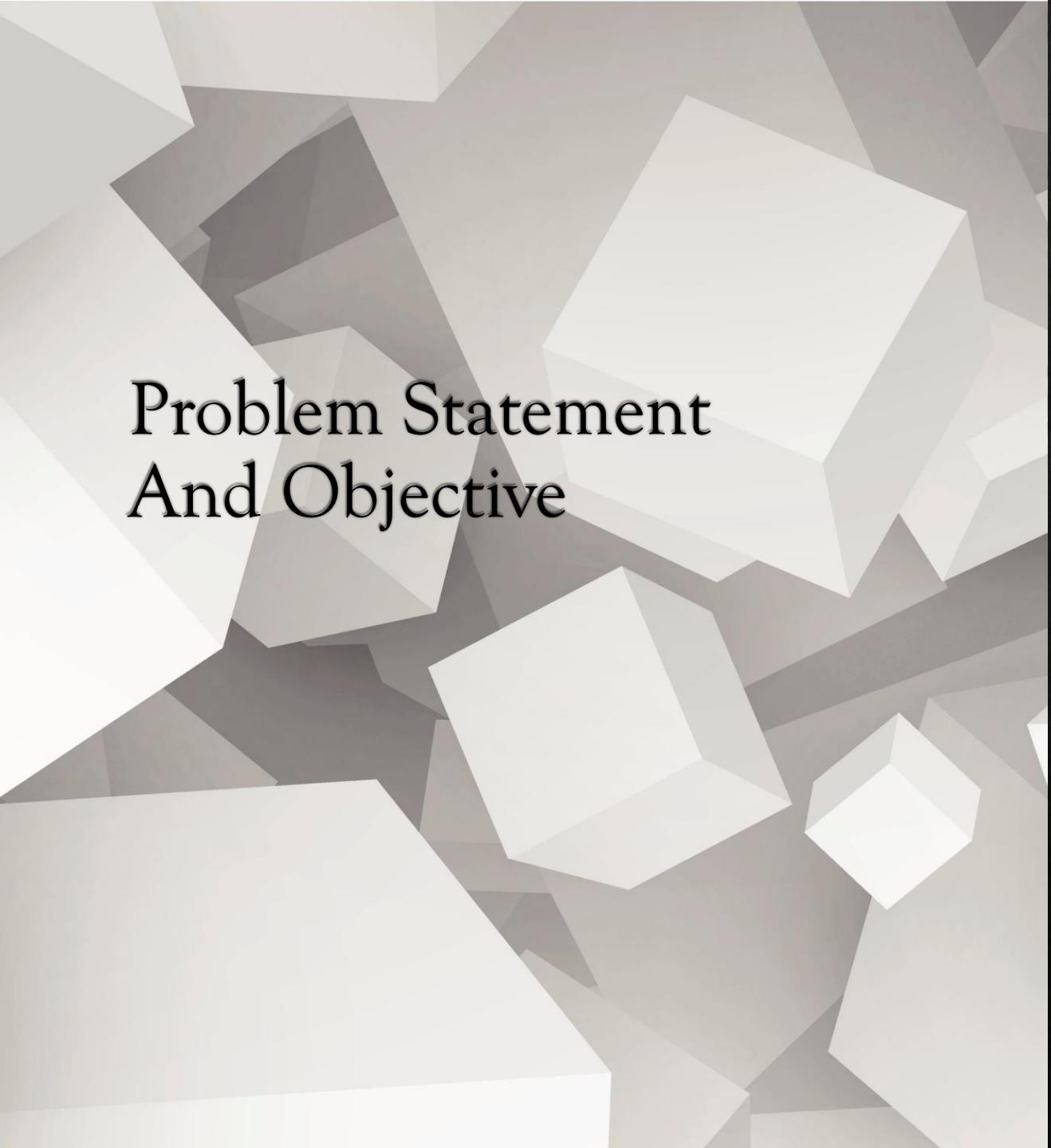


PoliticInsight

Team Name : Insight Innovators

Team Members:

- ❖ Tejas Maroo
- ❖ Hemangini Patel



Problem Statement And Objective

- ❖ **Problem Statement:** Develop an AI/ML-powered system that generates a comprehensive performance report card for politicians. The system will track and analyze various factors including news mentions, parliamentary activities, constituency work, and criminal records, providing a real-time and data-driven overview of a politician's performance.

Objective

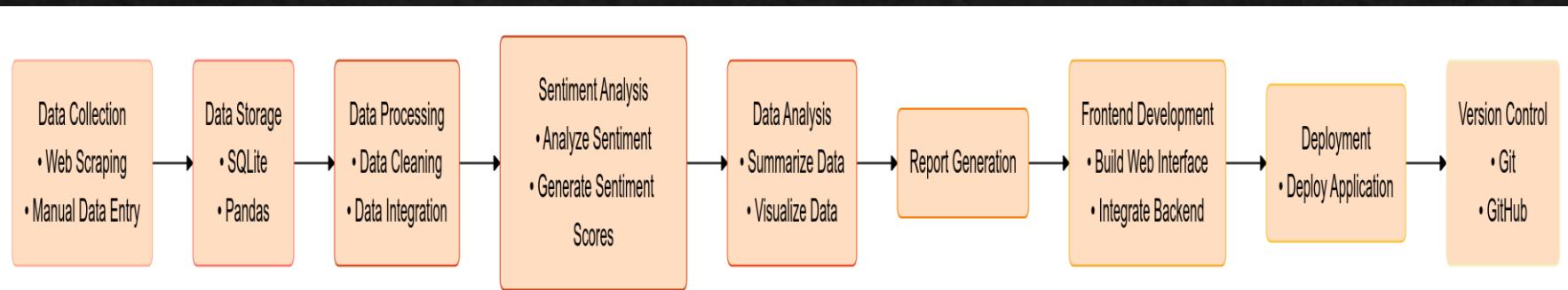
- ❖ The politiInsight project aims to make understanding and evaluating politicians easier.
- ❖ Boosting Transparency: Showing a clear picture of politician's work in parliament and their constituencies to ensure accountability.
- ❖ Supporting Informed Choices: Offering insights and summaries to help you grasp how well politicians are performing and how the public feels about their work.
- ❖ Providing a Complete View: Combining web scraping and manual data entry to cover all aspects of political activities.
- ❖ Creating Custom Reports: Allowing you to generate reports tailored to specific politicians or activities for a focused view.

Idea Of The Project

The PoliticInsight project is designed to provide a deep and accessible understanding of politicians' activities and performance. By analyzing data collected from various sources, including web scraping and manual input, this project aims to:

- ❖ **Track and Analyze Political Work:** Gather detailed information about politician's actions in parliament and their work in their constituencies.
- ❖ **Evaluate Public Sentiment:** Use sentiment analysis to gauge how the public feels about the politician's activities and initiatives.
- ❖ **Summarize Key Information:** Create easy-to-read summaries of politician's performance, highlighting their major contributions and areas of focus.
- ❖ **Bridge Data Gaps:** Address the lack of comprehensive and authentic data by combining automated and manual data collection methods

Flowchart:



Technology Stack:

1. Data Collection and Web Scraping: Python , BeautifulSoup, Scrapy
2. Sentiment Analysis: NLTK, TextBlob
3. Data Analysis and Visualization: Python Libraries (Pandas, NumPy) , Matplotlib,Seaborn
4. Deployment: Streamlit
5. Version Control: GitHub

Advantages

- ❖ **Clearer View of Politicians' Work:**
 - ❖ Makes it easier to see what politicians are doing, promoting transparency.
- ❖ **Better Decision-Making:**
 - ❖ Helps people make informed choices by summarizing how well politicians are performing.
- ❖ **Complete Data Coverage:**
 - ❖ Combines automated and manual methods to create a thorough dataset.
- ❖ **Reports:**
 - ❖ Allows you to generate reports that focus on specific aspects .
- ❖ **Insightful Analysis:**
 - ❖ Provides useful insights through sentiment analysis and data summaries.
- ❖ **User-Friendly Interface:**
 - ❖ Offers an intuitive interface that can be accessed from any device.

Challenges Faced:

- ❖ **Data Gaps:**
 - ❖ Difficulty in finding complete and accurate data, especially on sensitive topics.
- ❖ **Combining Data:**
 - ❖ Challenges in integrating data from different sources and formats.
- ❖ **Sentiment Analysis:**
 - ❖ Ensuring sentiment analysis is precise can be tricky with complex texts.
- ❖ **Manual Data Entry Issues:**
 - ❖ Manual input is slow and can lead to errors, affecting data quality.
- ❖ **Scalability Concerns:**
 - ❖ Managing and scaling the project as it grows can be challenging and require significant resources.

Use Cases

1. Voter Support:

- Before elections: Helps voters see politicians' performance and public sentiment.

2. Research:

- For analysts: Provides data on political trends and initiative impact.

3. Media:

- For journalists: Offers accurate information for reports and articles.

4. Policy Evaluation:

- For agencies: Assesses the effectiveness of policies and initiatives.

5. Public Engagement:

- For non-profits: Raises awareness about political transparency and accountability.

GitHub Link: https://github.com/Hemangini21/NFC3_InsightInnovators

Website Link: <https://nfc3insightinnovators.streamlit.app/>