

Section 2: Introducing the Poorn Satya Project.

2.1 Project Overview The Poorn Satya project is a web-based application that focuses on scraping data from multiple Indian food websites and providing ingredient details for comparison. The project's objective is to assist users in making informed decisions about food choices by enabling them to compare four different food items at a time. With Poorn Satya, users can explore and analyze various aspects of Indian cuisine, including ingredients, nutritional information, and more.

Key Features of the Application:

- **Data Scraping:** The application utilizes web scraping techniques to extract data from multiple Indian food websites, ensuring a comprehensive and up-to-date database of information.
- **Ingredient Details:** Poorn Satya provides detailed ingredient information for each food item, including the list of ingredients, their quantities, and any additional relevant information.
- **Comparative Analysis:** Users can compare up to four food items simultaneously, gaining insights into differences in ingredients, nutritional values, and other factors.
- **User-Friendly Interface:** The application offers a user-friendly interface that allows easy navigation and interaction, making it accessible to users with varying levels of technical expertise.

2.2 Data Sources and Scraping To provide accurate and comprehensive information, Poorn Satya identifies and extracts data from multiple Indian food websites. The project team carefully selects reputable and relevant sources that offer reliable and authentic information about Indian cuisine. Web scraping techniques, such as using web scraping libraries or tools, are employed to automate the process of extracting data from these websites. By regularly updating the data extraction process, Poorn Satya ensures that the information presented to users is timely and trustworthy.

Data extraction from websites involves parsing HTML content, identifying specific elements and patterns, and retrieving relevant information, such as ingredient details, from the website's structure. The project team pays attention to data quality, addressing challenges such as handling variations in data formats, managing missing or incomplete information, and ensuring consistency in the scraped data.

The data scraping process in Poorn Satya is designed to provide users with a comprehensive and reliable dataset, empowering them to explore and compare Indian food items effectively.

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