Godrej Consumer Products Presents: The Gen AI Digital Assistant Hackathon

Objective:

Develop a Generative AI-powered digital assistant capable of summarizing, synthesizing, and engaging in conversations about unstructured data, including PDFs, PowerPoint presentations, and Word documents. The goal is to streamline information retrieval and enhance user interaction with diverse document formats.

Problem Statement:

In today's fast-paced digital world, professionals often struggle to navigate through vast amounts of unstructured data. Documents such as research papers, reports, and presentations are rich in information but require significant time to process and comprehend. Your task is to create an AI assistant that can understand, summarize, and provide coherent responses about the content within these documents.

Expected Solution:

Participants are expected to design an AI assistant leveraging advanced Natural Language Processing (NLP) and Machine Learning (ML) techniques to perform the following tasks:

- **Data Ingestion:** Develop mechanisms to read and parse PDFs, PPTs, and Word documents.
- **Summarization:** Implement algorithms to generate concise summaries of the ingested documents.
- **Synthesis:** Integrate information from multiple documents to provide comprehensive responses to user queries.
- **Conversational Interface:** Build an interactive chat interface that allows users to ask questions and receive relevant, synthesized information from the documents.

Technical Requirements:

- **Data Parsing:** Utilize libraries and tools to extract text and metadata from various document formats.
- **NLP Techniques:** Employ state-of-the-art models for text summarization (e.g.GPT) and question-answering systems.
- **User Interface:** Develop a user-friendly interface for interaction with the AI assistant, possibly leveraging web development technologies (e.g.HTML, CSS, JavaScript).

Evaluation Criteria:

- **Functionality:** The assistant's ability to accurately summarize , synthesize, answer questions, and engage in conversations.
- **Innovation:** The novelty and creativity of the approach taken to develop the assistant.
- **User Experience:** The ease of use and overall user experience of the assistant.

- **Technical Proficiency:** The quality of the code and the technical implementation of the solution.

Why Participate?

- **Real-world Impact:** Contribute to the development of a tool that can revolutionize how people interact with information, making it more accessible and actionable.
- **Skill Enhancement:** Hone your skills in AI, NLP, and software development while working on a challenging and rewarding project.

Deliverables:

- A working prototype of the Generative AI digital assistant.
- Documentation detailing the system architecture, algorithms used, and instructions for setup and usage.
- A short video demonstrating the assistant's capabilities.

Get Ready to Innovate!

Join us for this exciting hackathon and help shape the future of information access and interaction. Unleash your creativity, collaborate with your peers, and build a Gen AI digital assistant that can empower users to unlock the full potential of unstructured data. The most impressive submissions will be shortlisted for the next stage of the selection process.