PROBLEM STATEMENT DETAILS

Problem Statement ID	1706
Problem Statement Title	Intelligent Enterprise Assistant: Enhancing Organizational Efficiency through AI-driven Chatbot Integration
Description	Description: Develop a chatbot using deep learning and natural language processing techniques to accurately understand and respond to queries from employees of a large public sector organization. The chatbot should be capable of handling diverse questions related to HR policies, IT support, company events, and other organizational matters. (Hackathon students/teams to use publicly available sample information for HR Policy, IT Support, etc. available on internet.) Develop document processing capabilities for the chatbot to analyse and extract information from documents uploaded by employees. This includes summarizing a document or extracting text (keyword information) from documents relevant to organizational needs. (Hackathon students/teams can use any 8 to 10 page document for demonstration). Ensure the chatbot architecture is scalable to handle minimum 5 users parallelly. This includes optimizing response time (Response Time should not exceed 5 seconds for any query unless there is a technical issue like connectivity, etc.) Enable 2FA (2 Factor Authentication – email id type) in the chatbot for enhancing the security level of the chatbot. Chatbot should filter bad language as per system-maintained dictionary. Youtube Link/Video Link (3 Minute video explaining the Problem Statement): https://youtu.be/Q3pP7mRk5Qk NOTE: GAIL (INDIA) LTD will not provide any hardware, software, license, data or any other resource to SIH hackathon Teams. The teams should use free and/or open-source resources, as applicable, for the entire project.
Organization	GAIL, Ministry of Petroleum and Natural Gas
Department	GAIL Limited
Category	Software
Theme	Miscellaneous
Youtube Link	https://youtu.be/Q3pP7mRk5Qk
Dataset Link	
Contact info	