AIML PROJECT TITLE : Chatbot for career search and job guidance.

Team Number : SECTION-ECE 2A

PROBLEM STATEMENT :

.The Career-Assistant-Chatbot is developed to help individuals explore their professional careers and to be the resources that provides the latest job-related to their data. The project's start is the retrieval of existing AI/ML- related job postings which is done by scraping job listing websites and then saving the data in text format. By adopting natural language processing methodologies, such as the extraction of essential details, AI/ML-related information such as the job title, company name, salary, skills, and qualification are then extracted from these files. Data is gathered from backend services to generate a text response message. Intent and entity are extraction, verb phrase extraction (for example, find all companies, find all jobs, what skills are needed for ML jobs at X). The end results is them shown to the user on an interactive interface, which is a completely seamless and useful process.

ALGORITHMS USED :

Data is scraped by Selenium and BeautifulSoup to collect job information from the Internet.

Named Entity Recognition (NER) pulls out the main points such as job titles, companies, and skills.

Google Dialogflow determines the user's intent and the corresponding entities in the queries.

Regular expressions and fuzzy logic track down the dataset and make matches based on the customer's request.

Streamlit presents chatbot replies in a tidy way by using a user-friendly interface.

WHAT TO INTEGRATE :

AI is integrated into the project through NER for extracting key job details, Dialogflow for understanding user intent, fuzzy matching for accurate information retrieval, NLP for personalized responses, and continuous learning to improve chatbot accuracy over time.

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