**Data Insight Analyser Using Data Analysis**

Abstract:

The Data Insight Analyser is an interactive tool designed to assist users in performing data analysis tasks. Which is built by using the Python programming language, it leverages natural language processing (NLP) techniques and popular data analysis libraries. This analyser can fetch data from various sources such as CSV files, excel files, JSON files and PDFs based on user input. It performs basic statistical calculations, such as mean, median, standard deviation, and correlation. It cleans and transforms the data to ensure accuracy and consistency by handling missing values, removing duplicates, and transforming variables. For instance, users can ask questions like retrieve the sales data for the last quarter, show me the top 10 customers by revenue. A data analyser is designed to assist users in analysing data, answering queries, and providing insights and making it a valuable tool for students, professionals, and researchers. This analyser automates data analysis tasks, saving time and reducing manual effort and can handle multiple queries simultaneously, making them scalable for large user bases. By using this analyser users without specialized analytics skills can benefit from driven insights.