**IBM\_DATA\_ANALYTICS\_PROJECT**

**✨ DOCTOR VISIT ANALYSIS ✨**

This repository contains code and data for analyzing doctor visit patterns and trends. The analysis focuses on examining patient demographics, appointment types, and other relevant factors to gain insights into the healthcare system.

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**1.Introduction**

Understanding doctor visit patterns can provide valuable information for healthcare providers, policymakers, and researchers. This analysis aims to explore various aspects related to doctor visits, such as patient characteristics, appointment types, and potential correlations.

The project utilizes Python for data processing and analysis, and various libraries for data visualization. By examining the provided dataset, the analysis seeks to uncover meaningful insights and trends in doctor visits.

**2.Data**

The repository includes a dataset (doctor\_visits.csv) containing anonymized information about doctor visits. The dataset contains the following columns:

* visits
* gender
* age
* income
* illness
* reduced
* health
* private
* freepoor
* freerepat
* nchronic
* lchronic

**3.Analysis**

The analysis is divided into several steps:

**Data Loading:** The dataset is loaded into memory using Python and necessary libraries.

**Data Cleaning:** The dataset is inspected for missing values, outliers, or any other data quality issues. Data cleaning techniques are applied to ensure the dataset is suitable for analysis.

**Exploratory Data Analysis**: Basic statistical analysis and visualizations are performed to gain initial insights into the dataset. Key metrics and trends are identified and visualized using appropriate charts and plots.

**Advanced Analysis:** Further analysis techniques are applied to uncover more complex patterns and relationships in the data. This may include correlation analysis, clustering, or predictive modeling, depending on the specific research questions.

**Results and Discussion:** The findings of the analysis are summarized and interpreted, highlighting key takeaways and insights. Relevant visualizations and charts are presented to support the conclusions.