**Memory of EDA on Heart Diseases**

In the realm of medical research, an in-depth Exploratory Data Analysis (EDA) unveiled crucial insights into heart diseases. Utilizing datasets from a specialized hospital and Kaggle, the exploration aimed to enhance early detection and predictive models through machine learning.

**Key Objectives:**

* Understand dataset structure, distribution, and types of information.
* Uncover correlations, relationships, and patterns within the data.
* Conduct data cleaning for missing values and normalization.
* Create informative visualizations for effective communication.
* Provide insights for informed decision-making in scientific research.

**Hypotheses:**

1. **Gender Impact:** Men likely exhibit a higher incidence of heart diseases.
2. **Risk Factor Exploration:** Age and glucose levels may correlate with heart diseases and strokes.
3. **Lifestyle and Cardiovascular Health:** Investigate links between occupation, physical activity, and urban living with heart diseases.
4. **Glucose and Diabetes:** Explore if higher glucose levels indicate a propensity for diabetes and subsequent heart issues.

**Key Findings:**

* Significant gender-based variations in heart disease incidence.
* Correlations observed between age, glucose levels, and heart diseases or strokes.
* Exploration into the impact of occupation, lifestyle, and urban environments on cardiovascular issues.
* Investigation of the relationship between glucose levels and diabetes as potential indicators of heart problems.

**Future Research Avenues:**

* Study stress perception across different age groups based on marital status.
* Examine healthcare access disparities between genders.

**Sources:**

* **JACC Journals:** [Link](https://www.jacc.org/doi/10.1016/j.jacc.2023.11.007)
* **WHO:** [Link](https://www.who.int/europe/news/item)
* **EU Data:** [Link](https://data.europa.eu/es)
* **Kaggle:** [Link](https://www.kaggle.com/datasets)

**Author:** Aya Dahmani [GitHub](https://github.com/6512197)

**Conclusion:** This EDA offers a foundational understanding for medical research, providing valuable insights for predictive models and paving the way for further investigations into cardiovascular health.

Principio del formulario