**Global plastic usage: future impact awareness**

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# **Introduction**:

Plastic pollution is a pressing global concern that threatens the world ecosystems and human well-being. The report Global plastic usage: future impact awareness wants to research and analyse the dataset “per-capita-plastic-waste-vs-gdp-per-capita” to address the problem of plastic consumption on a global scale.

The report examines the variables and the data for researching implications and forecasting future possible scenarios.

By exploring historical data, investigating the graphic and temporal aspect of the chosen dataset, and employing data analysis techniques, this report aims to bring awareness to the reader to start considering sustainable solutions to mitigate the impending crisis. In the optic to data analysis techniques.

This report will cover:

* **Dataset analysis and exploration**: discussion of the findings and insights to drawn a preliminary preliminary analysis of the dataset to see the next steps
* **Visualisation techniques:** application of visual representations to illustrate trends, patterns, and relationships within the dataset.
* **Data Processing and Visualization**: explanation of how the data was collected and processed:
  + Source of data, data cleaning methods used, handling missing values, and encoding categorical variables.
  + Methodology explanation behind the choices
* **Model discussion**: discussion of the models implemented:
  + Explain the machine learning models used and reason behind the selection.
  + Describe the model training process, parameter tuning, and validation techniques used.
* **Conclusion**: Analyse the findings obtained from the models and data analysis:
  + Interpretation of the results obtained from the models in the context of the domain of plastic usage.
  + Conclusions from the analysis and discussion of the implications.
  + Insights into the significance of the findings and their relevance to the project's objectives.

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# **Dataset analysis and exploration**:

References:

“Global Plastic Pollution.” [Www.kaggle.com](http://www.kaggle.com), www.kaggle.com/datasets/sohamgade/plastic-datasets.