SVD Analysis of Car Data

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1 SVD Analysis Results

We performed Singular Value Decomposition (SVD) analysis on the car data. The dataset contains information about various car models, including features such as price, cylinder volume, power, wheel base, length, width, height, empty weight, acceleration, top speed, and fuel efficiency.

2 SVD Visualization

The following scatter plot represents the car models in a 2D space created by the first two components obtained from the SVD analysis. Each point on the plot corresponds to a car model, and the points are annotated with the respective model names for reference.

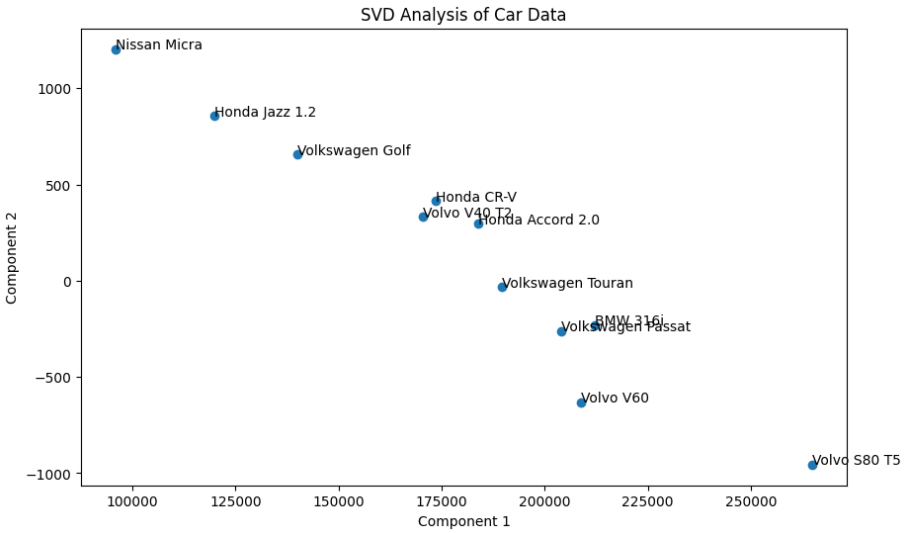

Figure 1: SVD Analysis: Car Models in 2D Space

3 Observations

From the scatter plot, we can observe the distribution of car models in the reduced-dimensional space. The proximity of points indicates similarities between car models based on the selected features. This visualization provides insights into the relationships and clusters among the car models in the dataset.

4 Conclusion

The SVD analysis offers a simplified representation of the car data, allowing us to explore patterns and relationships among the car models. This reduced-dimensional view enhances our understanding of the dataset and can be valuable for further analysis and decision-making processes.