

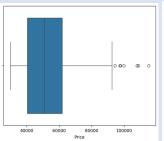
# Visualization and Exploration of Laptop Price Dataset Kelly Ernst and Professor Abdelfattah

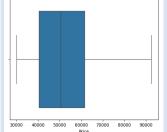
# **Research Topic**

This research presents the application of various machine learning models to demonstrate the details of laptops.

### **Dataset Description**

The dataset employed in this study is available on Kaggle [1]. It has 1,000 instances and 11 columns.





Boy Plot for Price

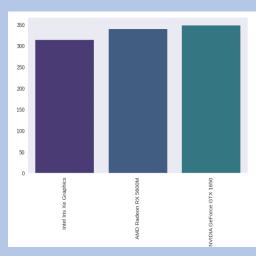




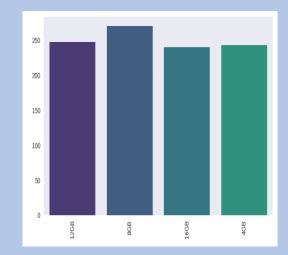
The ubits hed by Digital Commons@SHU02024 e Outliers Distribution

#### **EXPERIMENTAL RESULTS AND ANALYSIS**

A categorical feature divides the dataset into different groups categories. A bar chart has the groups on one axis and then rectangles with heights that represent the number of individuals in that group.







**Bar Chart for GPU Feature** 

# **Conclusion**

This is an ongoing project so further testing on machine learning models will continue. This study compared multiple machine learning models based on their performance metrics to decide the best models.

# References

[1]https://www.kaggle.com/datasets/sagaraiarchitect/laptop-price-explorer-the-ml-model/code

[2] Shaik, Mohammed Ali, Medicherla Varshith, Sanka SriVyshnavi, Nagamalla Sanjana, and Rama Sujith. "Laptop Price Prediction using Machine Learning Algorithms." In 2022 International Conference on Emerging Trends in Engineering and Medical Sciences (ICETEMS), pp. 226-231. IEEE, 2022. [3] Surjuse, Vaishali, Sankalp Lohakare, Aayush Barapatre, and Abhishek Chapke. "Laptop Price Prediction using Machine Learning." International Journal of Computer Science and Mobile Computing 11, no. 1 (2022): 164-168. [4] Pragnatha, Puvvada, Korada Sai Yaswanth Kumar, Vemala SSSM Vikas, Sai Pavan Gorle, Nookala Subrahmanya Sai, and Sangam Hemanth Sai. "Laptop Price Estimation Using Machine Learning." International Journal of Research in Engineering, Science and Management 7, no. 3 (2024): 42-44.