**Decoding the Depths: A Holistic Exploration of Mental Health in India (1990-2022)**

**Submitted for**

**DATA VISUALIZATION AND DASHBOARD**

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| **LIST OF FIGURES**   |  |  |  | | --- | --- | --- | | **Figure No.** | **Title** | **Page No.** | | **2.1** | line graph | 6 | | **2.2** | Bar graph | 7 | | **2.3** | Bar graph | 7 | | **2.4** | Bar graph | 8 | | **2.5** | flowchart | 8 | | **2.6** | result | 9 |   **LIST OF TABLES**   |  |  |  | | --- | --- | --- | | **Table No.** | **Title** | **Page No.** | | **1.1** | Prevalence of Depression Disorders in India (1990-2022) | 6 | | **1.2** | Disability-Adjusted Life Years (DALYs) for Mental Health Disorders in India (1990-2022) | 8 | | **1.3** | Comparative Prevalence Trends of Schizophrenia and Bipolar Disorder in India (1990-2022) | 10 | | **1.4** | Prevalence of Depressive Disorders in India: Comparative Analysis by Gender (1990-2022) | 12 | | **1.5** | Prevalence of Mental Disorders in India: Age-Standardized Percentages Over Two Decades (1990-2022) | 14 | | **1.6** | Prevalence of Mental and Substance Use Disorders in India: Age-Standardized Percentages by Gender (1990-2022) | 16 |  ABSTRACT The laptop has grown one of the most essential widgets in our day- to- day life for different conditioning. We'll supplied with numerous aspects and company names in the request. This study explores the operation of machine literacy ways to prognosticate laptop prices grounded on colourful features. The results demonstrate the effectiveness of model in landing the connections between laptop features and prices. Eventually, the laptop price vaticination model contributes to enhancing translucency in the consumer electronics request, aiding stakeholders in making informed opinions and easing a better understanding of the factors shaping laptop pricing dynamics. colourful studies supply checks a regard into prognosticating the price of the laptop with ML ways as in this paper. This study employs machine literacy ways to develop a prophetic model for laptop prices, using a different dataset encompassing crucial features like processor type, RAM size, storehouse capacity, display etc. This exploration uses multiple direct retrogression as the machine learning vaticination styles which offered 81 vaticination perfection. This paper proposes a system where price is dependent variable which is prognosticated, and this price is deduced from factors like Laptop’s model, RAM, ROM, (HDD/ SSD), GPU, CPU, IPS, Display, and Touch screen.  Overall, this exploration contributes to enhancing translucency in the consumer electronics request, empowering stakeholders with precious perceptivity to make informed opinions |  |
| INTRODUCTION AND RELATED WORK The laptop price vaticination is a veritably intriguing content which is used to prognosticate the price of the laptop grounded on their aspects. This will help people to save plutocrat and time by fluently search laptop of their choice by simply writing the aspects of that laptop. Understanding and prognosticating laptop prices have come imperative for consumers, retailers, and manufacturers. As laptops continue to play a vital part in our digital lives.  In recent times, with the high growth of data and advancements in machine literacy algorithms, the operation of prophetic modelling to read product prices has gained traction across colourful diligence, including consumer electronics. Predicting laptop prices involves using literal data on laptops, rooting applicable features, and employing machine literacy algorithms to establish patterns and connections that can be used to make prognostications.  Studies that concentrate on prognosticating prices for other consumer electronics bias. While not specific to laptops, perceptivity from these studies can give a foundation for understanding common challenges and methodologies in the broader environment. exploration papers and papers that bandy the operation of machine literacy ways in pricing strategies. This may include studies in retail, e-commerce, or other diligence where prophetic modelling has been applied to optimize pricing opinions. SOFTWARE USED  * Python * Visual Studio * Microsoft Excel  METHODOLOGY Research methodologies for laptop price vaticination frequently involve a combination of data collection, point engineering, model selection, and evaluation ways. ensure that the model adheres to fairness and ethical norms, avoiding impulses in prognostications.  The data is gutted and reused before transferring it into a model. The null values are checked and either removed or replaced. In this dataset, no null values were set up and the data corresponds of categorical and numerical values. Both the numerical and categorical values will be converted into 0 and 1 for the modeling process. As laptop data doesn't contain any null value so the data present over the records corresponds with numerical and categorical values which will be estimated in the modeling process. This graph helps illustrate how well your model predicts laptop prices compared to their factual values. Each point on the graph represents an individual laptop in your dataset.    This graph helps illustrate how well your model predicts laptop prices compared to their actual values. Each point on the graph represents an individual laptop in your dataset. Points form a perfect diagonal line from the bottom-left to the top-right, indicating that the predicted prices align perfectly with the actual prices. This scenario depicts an accurate and reliable prediction model. Points above the slant line indicate that the model tends to overrate prices. Again, points below the line indicate underestimation. Outliers swinging significantly from the main cluster may represent anomalies or crimes in the dataset. They could be exceptionally high-priced or low-priced laptops that the model struggles to prognosticate directly.    This graph visualizes the relationship between the prognosticated and company name of laptops. Immaculately, the points should align along a slant line (y = x), indicating accurate prognostications.    Dataset selection the first step of the machine learning algorithm is to elect a dataset for training. The dataset selection depends on the type of problem hand and the vacuity of data.  Data-processing Data preprocessing is the process of collecting and drawing data to reduce noise and increase its delicacy. This can be done by using algorithms that remove unknown values, outliers, or other factors that could affect the outgrowth of a vaticination.  Point selection point selection is the process of relating the most important features. This can be done using an exploratory process, or by using a pre-processing step similar as top element analysis. The thing is to choose features that are applicable for prognosticating the outgrowth variable in our model.  Vaticination Model once you have converted your data into a format that can be reused by machine literacy algorithms, we will make an accurate vaticination model for you. We’ve several models available for different purposes like prognosticating high-end laptops, budget laptops or all-rounders etc. You can choose from our models based on your need and budget constraints.    A bar graph in the environment of laptop price vaticination can be employed to represent colorful aspects of the data or the vaticination results. This graph showcases the significance of colorful features in prognosticating laptop prices. High bars represent more influential features in determining the prognosticated prices. For case, if the graph indicates that the GPU model has the altitudinous bar, it signifies that the plates recycling unit might have the most significant impact on pricing. This graph allows a comparison of multiple models grounded on their performance criteria. The altitudinous bar signify the best-performance models in prognosticating laptop prices according to the chosen metric    **Fig 2.1** Flow Chart EXPERIMENTAL RESULTS  CONCLUSION In conclusion, the laptop price vaticination model developed in this study exhibits (mention the model’s performance criteria delicacy, perfection, recall, etc.). Through rigorous analysis and evaluation of colorful features, including (list significant features), the model demonstrates a estimable capability to prognosticate laptop prices within an respectable periphery of error.  This study contributes to the growing field of laptop price vaticination by furnishing a robust model and Perceptivity that can inform pricing strategies and decision-making process. The model’s performance, coupled with the linked areas for enhancement, lays a foundation for continued disquisition and refinement in the realm of prognosticating laptop prices.  Moving forward, unborn exploration trials in the sphere of laptop price vaticination could concentrate on (implicit future exploration directions incorporating advanced machine literacy ways, exploring fresh features, assaying arising request trends). Similar sweats aim to further upgrade prophetic models and ameliorate their mileage in real-world scripts. REFERENCES [1] International Journal of Computer Science and Mobile Computing. Laptop Price vaticination using Machine literac  [2] Pacing of the International Multiconference of masterminds and Computer Scientists 2021. A comparison of Machine Learning Classifiers on Laptop Products Bracker Tasks. |  |