|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| Carat Weight | Weight of the diamond in carats. | Yes | Carat weight has a significant impact on diamond prices. |
| Cut | Quality of the diamond's cut (e.g., Ideal, Premium). | Yes | Cut quality directly affects diamond brilliance and value. |
| Color | Color grade of the diamond (e.g., D, E, F). | Yes | Color grade influences the perceived purity and value of the diamond. |
| Clarity | Clarity grade indicating the presence of flaws (e.g., FL, IF, VVS1). | Yes | Clarity grade affects the diamond's brilliance and price. |

**Model Development Phase Template**

|  |  |
| --- | --- |
| Date | 21 June 2024 |
| Team ID | 739784 |
| Project Title | Gem Valuation Revolution: Predicting Diamond Prices With Artificial Neural Networks |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

This template provides a structured approach to documenting the feature selection process for predicting diamond prices, ensuring clarity and justification for the chosen features in the development of predictive models. Adjust and customize the template as per specific project requirements and findings..



|  |  |  |  |
| --- | --- | --- | --- |
| Dimensions | Length, width, and depth measurements of the diamond. | Yes | Physical dimensions contribute to diamond pricing models. |
| Fluorescence | Presence and intensity of fluorescence in the diamond. | Yes | Fluorescence impacts the perceived color and value of diamonds. |
| |  | | --- | | Certification |  |  | | --- | |  | | Diamond certification details (e.g., GIA, AGS). | Yes | Certification assures the quality and authenticity of the diamond. |