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| **Regression** | **Classification** | **Clustering** |
| * Output is continuous or numerical * Estimating or prediction of numerical values or quantities. | * Output is categorical or discrete * Assigning data points into pre-defined categories, distinct groups/classes/labels. | * Finding natural grouping or structures within the data. * No pre-defined categories. |
| **Examples:** prediction of house prices, estimating temperature, age of a person based on various factors, forecasting stock prices | **Examples:** email filtration system, sentiments analysis, image recognition | **Examples:** grouping similar articles or news |

**Key Features of Regression, Classification and Clustering**