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| **Variable Name** | **Data Type** | **Description** |
| **Temperature** | Numeric (float or integer). | The atmospheric temperature measured in degrees Celsius or Fahrenheit.  Units: Degrees Celsius. |
| **Humidity** | Numeric (float or integer). | The amount of water vapor in the air.  Units: Percentage (%). |
| **Rainfall** | Numeric (float or integer). | The amount of precipitation measured in a specific area and time period.  Units: Millimeters. |
| **Soil pH** | Data Type: Numeric (float). | The acidity or alkalinity of the soil.  Scale: Typically ranging from 0 to 14, where 7 is considered neutral, values below 7 are acidic, and values above 7 are alkaline. |
| **Nitrogen Level** | Numeric (float or integer). | Definition: The concentration of nitrogen in the soil.  Units: Measurement unit for nitrogen concentration (e.g., parts per million). |
| **Phosphorus Level:** | Numeric (float or integer). | The concentration of phosphorus in the soil.  Units: Measurement unit for phosphorus concentration (e.g., parts per million). |
| **Potassium Level** | Numeric (float or integer) | The concentration of potassium in the soil.  Units: Measurement unit for potassium concentration (e.g., parts per million). |
| **Fertilizer Amount** | Numeric (float or integer) | The quantity of fertilizer applied to the soil.  Units: Measurement unit for fertilizer quantity (e.g., kilograms) |
| **Crop Type** | Categorical (string or coded values). | The specific type or species of crop being cultivated. |