Creating metadata for your dataset involves documenting the meaning and properties of each column or feature. Metadata is essential for data understanding, sharing, and analysis. Here's a metadata description for the columns in your dataset:

1. **customerID**:
   * Data Type: Categorical (String)
   * Description: A unique identifier for each customer.
2. **gender**:
   * Data Type: Categorical (String)
   * Description: The gender of the customer (e.g., Male, Female).
3. **SeniorCitizen**:
   * Data Type: Categorical (Binary)
   * Description: Indicates whether the customer is a senior citizen (1 for yes, 0 for no).
4. **Partner**:
   * Data Type: Categorical (Binary)
   * Description: Indicates whether the customer has a partner (1 for yes, 0 for no).
5. **Dependents**:
   * Data Type: Categorical (Binary)
   * Description: Indicates whether the customer has dependents (1 for yes, 0 for no).
6. **tenure**:
   * Data Type: Numeric (Integer)
   * Description: The number of months the customer has been with the company.
7. **PhoneService**:
   * Data Type: Categorical (Binary)
   * Description: Indicates whether the customer has a phone service (1 for yes, 0 for no).
8. **MultipleLines**:
   * Data Type: Categorical (String)
   * Description: Whether the customer has multiple phone lines (e.g., "Yes," "No," "No phone service").
9. **InternetService**:
   * Data Type: Categorical (String)
   * Description: The type of internet service the customer has (e.g., "DSL," "Fiber optic," "No").
10. **OnlineSecurity**:
    * Data Type: Categorical (String)
    * Description: Whether the customer has online security (e.g., "Yes," "No," "No internet service").
11. **OnlineBackup**:
    * Data Type: Categorical (String)
    * Description: Whether the customer has online backup (e.g., "Yes," "No," "No internet service").
12. **DeviceProtection**:
    * Data Type: Categorical (String)
    * Description: Whether the customer has device protection (e.g., "Yes," "No," "No internet service").
13. **TechSupport**:
    * Data Type: Categorical (String)
    * Description: Whether the customer has tech support (e.g., "Yes," "No," "No internet service").
14. **StreamingTV**:
    * Data Type: Categorical (String)
    * Description: Whether the customer has streaming TV (e.g., "Yes," "No," "No internet service").
15. **StreamingMovies**:
    * Data Type: Categorical (String)
    * Description: Whether the customer has streaming movies (e.g., "Yes," "No," "No internet service").
16. **Contract**:
    * Data Type: Categorical (String)
    * Description: The type of contract the customer has (e.g., "Month-to-month," "One year," "Two year").
17. **PaperlessBilling**:
    * Data Type: Categorical (Binary)
    * Description: Whether the customer uses paperless billing (1 for yes, 0 for no).
18. **PaymentMethod**:
    * Data Type: Categorical (String)
    * Description: The payment method used by the customer (e.g., "Electronic check," "Mailed check," "Bank transfer (automatic)").
19. **MonthlyCharges**:
    * Data Type: Numeric (Float)
    * Description: The monthly charges for the customer's services.
20. **TotalCharges**:
    * Data Type: Numeric (Float)
    * Description: The total charges incurred by the customer.
21. **Churn**:
    * Data Type: Categorical (Binary)
    * Description: Indicates whether the customer has churned (1 for yes, 0 for no).

This metadata provides a clear understanding of each column in your dataset, which is crucial for data preprocessing, analysis, and building a customer churn prediction model.