**Business Objective :** To predict the burnt area of the forest

**Constraints :** Correctness of the various factors is important,domainknowledge needed for supervision & correct analysis.

**Data Dictionary :**

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| --- | --- | --- | --- |
| **Name of the feature** | **Description** | **Type** | **Relevance** |
| month | Month of the year: Jan to Dec | Non-numeric | Relevant, useful for analysis |
| day | Day of the week: Mon to Sun | Non-numeric | Relevant, useful for analysis |
| FFMC | FFMC index from the FWI system: 18.7 to 96.20 | Numeric | Relevant, useful for analysis |
| DMC | DMC index from the FWI system: 1.1 to 291.3 | Numeric | Relevant, useful for analysis |
| DC | DC index from the FWI system: 7.9 to 860.6 | Numeric | Relevant, useful for analysis |
| ISI | ISI index from the FWI system: 0.0 to 56.10 | Numeric | Relevant, useful for analysis |
| temp | temperature in Celsius degrees: 2.2 to 33.30 | Numeric | Relevant, useful for analysis |
| RH | relative humidity in %: 15.0 to 100 | Numeric | Relevant, useful for analysis |
| wind | wind speed in km/h: 0.40 to 9.40 | Numeric | Relevant, useful for analysis |
| rain | outside rain in mm/m2 : 0.0 to 6.4 | Numeric | Relevant, useful for analysis |
| area | the burned area of the forest (in ha): 0.00 to 1090.84 | Numeric | Relevant, useful for analysis |
| dayfri | Dummy variable created for day 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| daymon | Dummy variable created for day 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| daysat | Dummy variable created for day 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| daysun | Dummy variable created for day 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| daythu | Dummy variable created for day 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| daytue | Dummy variable created for day 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| daywed | Dummy variable created for day 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthapr | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthaug | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthdec | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthfeb | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthjan | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthjul | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthjun | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthmar | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthmay | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthnov | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthoct | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| monthsep | Dummy variable created for month 1-yes, 0-No | Numeric, Binary | Relevant, useful for analysis |
| size\_category | Area of the forest | Non-numeric | Relevant, useful for analysis |