**Attributes for Predicting Student Academic performance**

**Student feature:**

1. **School Name**: GB, SA

2. **Student \_Id**: Numeric

3. **Stud\_Name**: Student NameCharacters

4. **Section**: Section Name

5.**Gende**r:Female (F) or Male (M)

**6.Age**: numeric

**7. Address**: urban-U, rural-R

**8. Distance from home to school**: how many kilometers

**9. Healthproblem:** Health problem for student Yes, No

10. **Year**: 2years data 2016, 2017

11. **Attendance**: For 200 classes

12. **Hostel**: Yes, No

**13. Higher studies**: Want to take higher education (yes or no)

**14. Nursery**: attended nursery school (yes or no)

**15. Reason**: Reason to choose this school

Close to home

School to home

Course preference

Other

**16.Go out**: going out with friends (1-very low to 5-very high)

**Parent features:**

**17. Family size**: family size- less than three-LT3

Greater than three-GT3

**18. Pstatus**: parent cohabitation status

Living together-T

Apart -A

**19. Fedu :** Father Education

0-none

1-primary education (up to 4th class)

2-5th to 9th class

3-secondary education up to inter

4-higher education

**20. Medu**: Mother Education same above 0-4

**21 .Mjob:** Mother Job

Teacher

Healthcare related

Govt services

At home

Other

**22. Fjob**: Father Job same as Mjob

**23. Guardian: student’s** guardian (nominal: mother, father, other)

**24. Famsup**: family educational support (yes or no)

**25. Palcoholic:** parent alcoholic consumption

Rating

1 –low

2- Medium

3- high

**School features**

2**6. Travel time**-number of minutes, or hours

27.  **Study time**: weakly study time

1-lessthan 2 hours

2- 2 to 5 hours

3- 5 to 10 hours

4- 10 hours

28.**Schoolsup:** school support whether school gives extra educational support (yes or no)

**29.Fee Range**: Below 20,000------------------------1

Above 20,000------------------------2

**30. Activities**- conduct curricular activities

**TS 10th Class Grades & Grade Points in Co-Curricular Areas**

|  |  |  |
| --- | --- | --- |
| **Grade Range** | **Grade** | **Grade Points** |
| 85 – 100 Marks | A+ | 5 |
| 71 - 84 Marks | A | 4 |
| 56 – 70 Marks | B | 3 |
| 41 – 55 Marks | C | 2 |
| 0 - 40 Marks | d | 1 |

1. VALUE EDUCATION AND LIFE SKILLS
2. ART&CULTURAL EDUCATION
3. HEALTH & PHYSCICAL EDUCATION
4. WORK AND COMPUTER EDUCATION.

**31. Have Qualified teachers:** Yes/no

**Teacher features:**

**32. Tel\_Teacher:** Telugu teacherName

**33. Tel\_Exp: Teacher-experience**

**34. T\_Quali: Telugu Teacher-Qualification**

**35. T\_feedback: Telugu Teacher interaction with student/ Feedback**: rating 1 to 5

1. Very bad

2. Bad

3. Good

4. Excellent

**36 to 55.** Hindi,eEnglish,maths ,science,social teachers experience,qualification and feedback

**56 to 61. Subject marks:** Telugu,Hindi,English,Maths,Science,Social studies

**62. SA-1: First Prefinal exam grade marks**

**63. SA-2: Second Prefinal exam grade marks**

**64. SA-3: Final grade marks**

**65. Grade range 0-10**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 9.6-10 | 8.6-9.5 | 7.6-8.5 | 6.6-7.5 | 5.6-6.5 | 4.6-5.5 | 3.6-4.5 | Below 35 |
| A1 | A2 | B1 | B2 | C1 | C2 | D | E |

**66. Class: categorical**

|  |  |  |
| --- | --- | --- |
| **9.0-10.0 grade** | **7.0-8.9grade** | **5.0-6.9** |
| **High level** | **Middle level** | **Low level** |

**Example for TELANGANA SSC Grading Procedure based on Marks secured by a student in 10th Class**

|  |  |  |  |
| --- | --- | --- | --- |
| **Subject** | **Marks** | **Grade** | **Grade Points** |
| First Language- Telugu | 74 | B2 | 7 |
| Second Language - Hindi | 74 | B1 | 8 |
| Third Language - English | 35 | D2 | 3 |
| Mathematics | 93 | A1 | 10 |
| General Science | 60 | C1 | 6 |
| Social Studies | 88 | A2 | 9 |
| **Grade Point Average (GPA)**: 7+8+3+10+6+9 = 43/6 = 7.1 | | | |

**TELANGANA Tenth Class Grades & Grade Points in Curricular Subjects**

|  |  |  |  |
| --- | --- | --- | --- |
| **First & Third Languages (Telugu & English), Non Languages** | **Second Language (Hindi)/ Marks in all languages for PH candidates** | **Grade** | **Grade Points** |
| 91 – 100 Marks | 90 - 100 | A1 | 10 |
| 81 - 90 Marks | 79 – 89 | A2 | 9 |
| 71 – 80 Marks | 68 – 78 | B1 | 8 |
| 61 – 70 Marks | 57 – 67 | B2 | 7 |
| 51 - 60 Marks | 46 – 56 | C1 | 6 |
| 41 - 50 Marks | 35 – 45 | C2 | 5 |
| 35 – 40 Marks | 20 – 34 | D | 4 |
| Below 35 (Less than 35) | Below 20 (Less than 20) | E | - |