Data retrieved from: https://www.kaggle.com/uciml/student-alcohol-consumption

Context:

The data were obtained in a survey of students math and portuguese language courses in secondary school. It contains a lot of interesting social, gender and study information about students. You can use it for some EDA or try to predict students final grade.

Codebook:

Attributes for both student-mat.csv (Math course) and student-por.csv (Portuguese language course) datasets:

- 1. school student's school (binary: 'GP' Gabriel Pereira or 'MS' Mousinho da Silveira)
- 2. sex student's sex (binary: 'F' female or 'M' male)
- 3. age student's age (numeric: from 15 to 22)
- 4. address student's home address type (binary: 'U' urban or 'R' rural)
- 5. famsize family size (binary: 'LE3': <= 3 or 'GT3': > 3)
- 6. Pstatus parent's cohabitation status (binary: 'T' living together or 'A' apart)
- 7. Medu mother's education (numeric: 0 none, 1 primary education (4th grade), 2 5th to 9th grade, 3 secondary education or 4 higher education)
- 8. Fedu father's education (numeric: 0 none, 1 primary education (4th grade), 2 5th to 9th grade, 3 secondary education or 4 higher education)
- 9. Mjob mother's job (nominal: 'teacher', 'health' care related, civil 'services' (e.g. administrative or police), 'at_home' or 'other')
- 10. Fjob father's job (nominal: 'teacher', 'health' care related, civil 'services' (e.g. administrative or police), 'at_home' or 'other')
- 11. reason reason to choose this school (nominal: close to 'home', school 'reputation', 'course' preference or 'other')
- 12. guardian student's guardian (nominal: 'mother', 'father' or 'other')
- 13. traveltime home to school travel time (numeric: 1 <15 min., 2 15 to 30 min., 3 30 min. to 1 hour, or 4 >1 hour)
- 14. studytime weekly study time (numeric: 1 <2 hours, 2 2 to 5 hours, 3 5 to 10 hours, or 4 >10 hours)
- 15. failures number of past class failures (numeric: n if 1<=n<3, else 4)
- 16. schoolsup extra educational support (binary: yes or no)
- 17. famsup family educational support (binary: yes or no)
- 18. paid extra paid classes within the course subject (Math or Portuguese) (binary: yes or no)
- 19. activities extra-curricular activities (binary: yes or no)
- 20. nursery attended nursery school (binary: yes or no)
- 21. higher wants to take higher education (binary: yes or no)
- 22. internet Internet access at home (binary: yes or no)
- 23. romantic with a romantic relationship (binary: yes or no)
- 24. famrel quality of family relationships (numeric: from 1 very bad to 5 excellent)

- 25. freetime free time after school (numeric: from 1 very low to 5 very high)
- 26. goout going out with friends (numeric: from 1 very low to 5 very high)
- 27. Dalc workday alcohol consumption (numeric: from 1 very low to 5 very high)
- 28. Walc weekend alcohol consumption (numeric: from 1 very low to 5 very high)
- 29. health current health status (numeric: from 1 very bad to 5 very good)
- 30. absences number of school absences (numeric: from 0 to 93)

These grades are related with the course subject, Math or Portuguese:

- 1. G1 first period grade (numeric: from 0 to 20)
- 2. G2 second period grade (numeric: from 0 to 20)
- 3. G3 final grade (numeric: from 0 to 20, output target)

Source Information For Raw Data

P. Cortez and A. Silva. Using Data Mining to Predict Secondary School Student Performance. In A. Brito and J. Teixeira Eds., Proceedings of 5th FUture BUsiness TEChnology Conference (FUBUTEC 2008) pp. 5-12, Porto, Portugal, April, 2008, EUROSIS, ISBN 978-9077381-39-7.

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https://archive.ics.uci.edu/ml/datasets/STUDENT+ALCOHOL+CONSUMPTION