# **Multiple Linear Regression Modelling: Case Study**

Predicting academic performance of an elementary school using attributes like class size, enrollment, poverty, parent education, student performance, teachers credentials from 400 elementary schools from the California Department of Education's API 2000 dataset.

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| VARIABLE NAME | Label |
| acs\_46 | class size 4-6 |
| acs\_k3 | class size k-3 |
| api00 | Academic Performance Indicator 2000 |
| api99 | Academic Performance Indicator 1999 |
| avg\_ed | Average number of Years of High school parent education |
| col\_grad | % of Parents who are college grad |
| dnum | district number |
| ell | % of Students who are English language learners |
| emer | % of part Time Teachers |
| enroll | Number of students |
| full | % of full Time Teachers |
| grad\_sch | % of Parents who are attended grad school |
| growth | growth 1999 to 2000 |
| hsg | % of Parents who are high school graduate |
| mealcat | free meals in 3 categories |
| Smeals | % of Students who opt for free meals |
| mobility | Dropout Rate |
| not\_hsg | % of Parents who are not high school graduate |
| snum | school number |
| some\_col | % of Parents who are attended some college |
| yr\_rnd | year round school – School open through the year or not |

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| api00 | Dependent Variable |
|  | Not to be used in modelling |