

Final Project

1. Chicago Public Schools - Progress Report Cards (2011-2012)

This dataset shows all school level performance data used to create CPS School Report Cards for the 2011-2012 school year.

<https://data.cityofchicago.org/Education/Chicago-Public-Schools-Progress-Report-Cards-2011-/9xs2-f89t>

The data includes information about 566 Chicago public schools' performance using metrics are described as follows.

SAFETY ICON: Student Perception/Safety category from 5 Essentials survey
SAFETY SCORE: Student Perception/Safety score from 5 Essentials survey
FAMILY INVOLVEMENT ICON: Involved Families category from 5 Essentials survey
FAMILY INVOLVEMENT SCORE: Involved Families score from 5 Essentials survey
ENVIRONMENT ICON: Supportive Environment category from 5 Essentials survey
ENVIRONMENT SCORE: Supportive Environment score from 5 Essentials survey
INSTRUCTION ICON: Ambitious Instruction category from 5 Essentials survey
INSTRUCTION SCORE: Ambitious Instruction score from 5 Essentials survey
LEADERS ICON: Effective Leaders category from 5 Essentials survey
LEADERS SCORE: Effective Leaders score from 5 Essentials survey
TEACHERS ICON: Collaborative Teachers category from 5 Essentials survey
TEACHERS SCORE: Collaborative Teachers score from 5 Essentials survey
PARENT ENGAGEMENT ICON: Parent Perception/Engagement category from parent survey
PARENT ENGAGEMENT SCORE: Parent Perception/Engagement score from parent survey
AVERAGE STUDENT ATTENDANCE: Average daily student attendance
RATE OF MISCONDUCTS (PER 100 STUDENTS): # of misconducts per 100 students
AVERAGE TEACHER ATTENDANCE: Average daily teacher attendance
INDIVIDUALIZED EDUCATION PROGRAM COMPLIANCE RATE: % of IEPs and 504 plans completed by due date
PK-2 LITERACY: % of students at benchmark on DIBELS or IDEL
PK-2 MATH: % of students at benchmark on mClass
GR3-5 GRADE LEVEL MATH: % of students at grade level, math, grades 3-5
GR3-5 GRADE LEVEL READ: % of students at grade level, reading, grades 3-5
GR3-5 KEEP PACE READ: % of students meeting growth targets, reading, grades 3-5
GR3-5 KEEP PACE MATH: % of students meeting growth targets, math, grades 3-5
GR6-8 GRADE LEVEL MATH: % of students at grade level, math, grades 6-8
GR6-8 GRADE LEVEL READ: % of students at grade level, reading, grades 6-8
GR6-8 KEEP PACE MATH: % of students meeting growth targets, math, grades 6-8
GR6-8 KEEP PACE READ: % of students meeting growth targets, reading, grades 6-8

GR-8 EXPLORE MATH: % of students at college readiness benchmark, math
 GR-8 EXPLORE READ: % of students at college readiness benchmark, reading
 ISAT EXCEEDING MATH: % of students exceeding on ISAT, math
 ISAT EXCEEDING READ: % of students exceeding on ISAT, reading
 ISAT VALUE ADD MATH: ISAT value-add value, math
 ISAT VALUE ADD READ: ISAT value-add value, reading
 ISAT VALUE ADD COLOR MATH: ISAT value-add color, math
 ISAT VALUE ADD COLOR READ: ISAT value-add color, reading
 STUDENTS TAKING ALGEBRA: % of students taking algebra
 STUDENTS PASSING ALGEBRA: % of students taking algebra
 9TH GRADE EXPLORE (2009): Average EXPLORE score, 9th graders who tested in fall 2009
 9TH GRADE EXPLORE (2010): Average EXPLORE score, 9th graders who tested in fall 2010
 10TH GRADE PLAN (2009): Average PLAN score, 10th graders who tested in fall 2009
 10TH GRADE PLAN (2010): Average PLAN score, 10th graders who tested in fall 2010
 NET CHANGE EXPLORE AND PLAN: Difference between Grade 9 Explore (2009) and Grade 10 Plan (2010)
 11TH GRADE AVERAGE ACT (2011): Average ACT score, 11th graders who tested in fall 2011
 NET CHANGE PLAN AND ACT: Difference between Grade 10 Plan (2009) and Grade 11 ACT (2011)
 COLLEGE ELIGIBILITY: % of graduates eligible for a selective four-year college
 GRADUATION RATE: % of students who have graduated within five years
 COLLEGE/ ENROLLMENT RATE: % of students enrolled in college
 COLLEGE ENROLLMENT (NUMBER OF STUDENTS): Total school enrollment
 FRESHMAN ON TRACK RATE: Freshmen On-Track rate

2. Final Project Evaluation

The final project includes two components: presentation and final project report. The percentage of each part to your final project score is given below:

1. Presentation on Nov. 27, 29 and Dec. 1 during our regular meeting time. Each group will give a 15-20 minutes' presentation. This part contributes 30 percent to your final project score;
2. Final project report is due Dec. 4, 2023. The final project report contributes 40 percent to your final project score. This will be evaluated based on your writing, interpretation, and completeness.
3. The models and methods you explored in your final project contributes to 30 percent to your final project. This will be evaluated based on the

appropriateness of your models and methods, and the number of ways attempted.

3. Final Project Report

Final project report is due Dec. 4, 2023. The final project report contributes 40 percent to your final project score. This will be evaluated based on your writing, interpretation, and completeness. Each team should only submit one report. However, please specify the contribution from each team member clearly so that we can evaluate according to your contribution. Please submit your final project report and R code separately in Gradescope.com so that we can validate your findings.

The final project report will be graded according to rubrics given in the final project folder on Blackboard course website.