Education Disparity in Chicago Public High Schools

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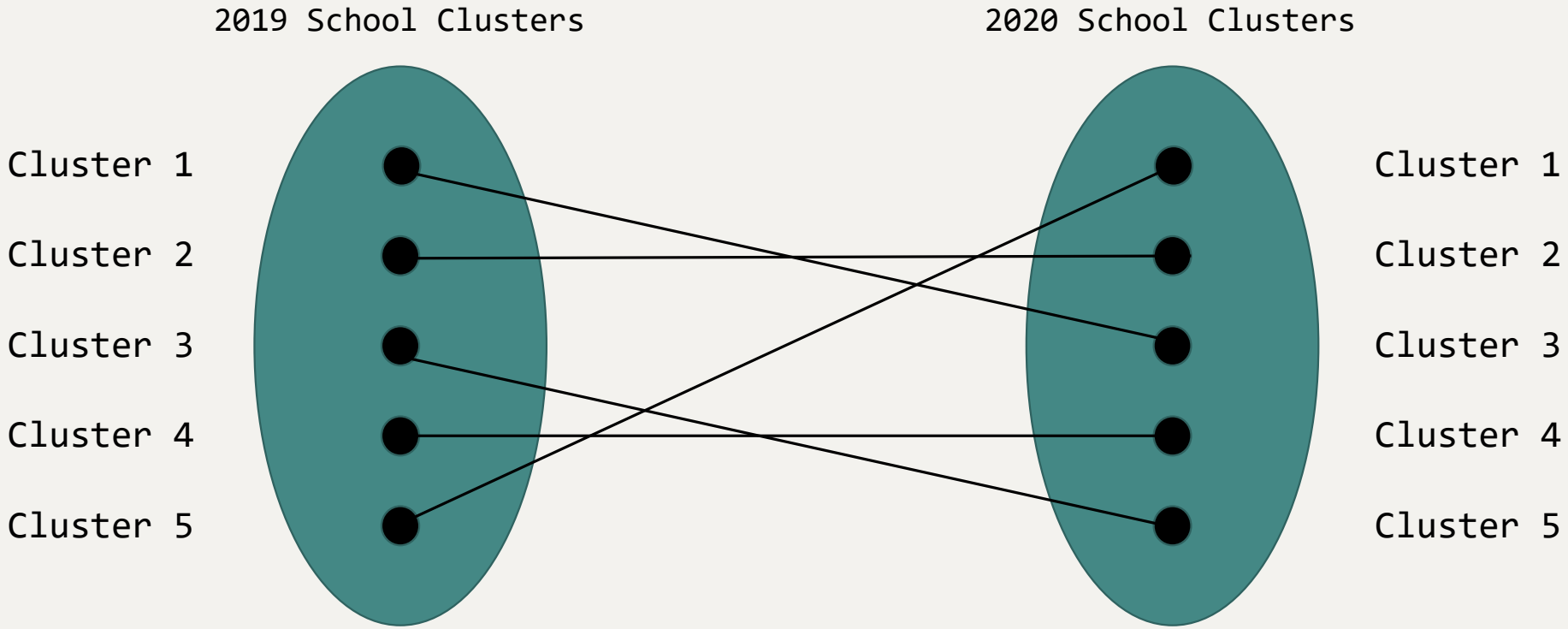
Clustering Schools

- I began by clustering schools based on data from ISBE using a K-Means clustering algorithm
- The K-Means algorithm took demographics as inputs like % Low Income, % White, % Black/African American, % Hispanic, etc.

Trends over Time

- In addition to identifying summary statistics of the clusters, we can see how these clusters change over time
- More specifically, we are looking to analyze the demographic changes as well as academic changes

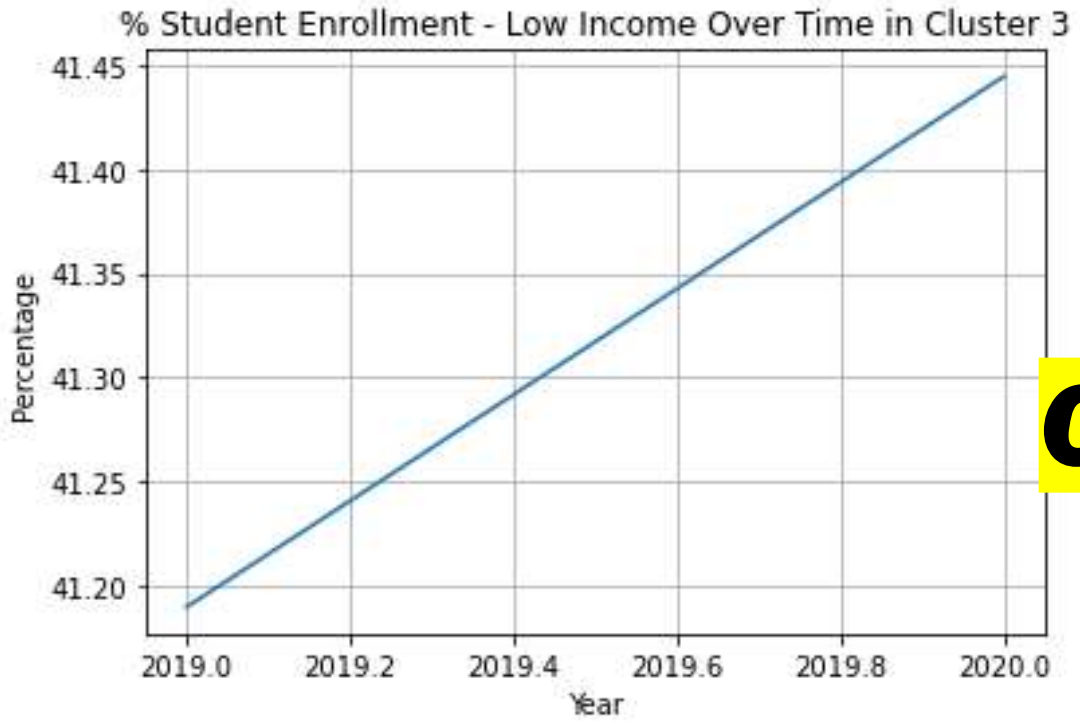
Graphical Model



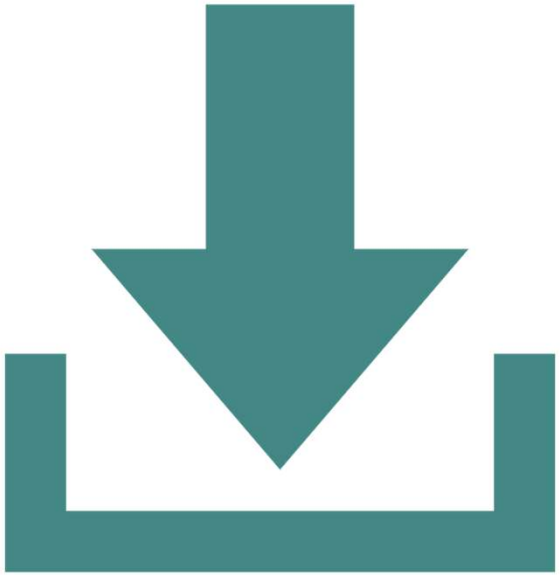
Create stable matching between years

Snippet of Results from 2019

AVERAGES OF CLUSTER: 3	
% Student Enrollment - White	32.73
% Student Enrollment - Black or African American	17.76
% Student Enrollment - Hispanic or Latino	32.92
% Student Enrollment - Asian	10.55
% Student Enrollment - Low Income	41.19
Student Attendance Rate	93.49
High School Dropout Rate - Total	1.67
High School 4-Year Graduation Rate - Total	93.19
% Graduates enrolled in a Postsecondary Institution within 12 months	87.46
Chronic Absenteeism	20.61



Changes over Time



Github Repo!

Progress can be found in my github repository here: https://github.com/mkralis123/SoReMo