

1. DATA GATHERING AND PROCESSING

The data will be gathered from http://ecdcoe.co.za/files/resources/resource_260.xlsx. The data contains district names, latitude and longitude, suburb and other unrelated info. Which we will use pandas to manipulate and clean. For each district we will check the best school's recommender for teacher to pursue career on, based on the school rating and areas of interest around the district. We mainly focus on the Eastern Cape province, where there is low pass rate.

We will then use foursquare and folium to analyse and create clusters. Based on the map created teachers can see that even in the rural areas there are good places to visit and spend time on with a family. Afterall the project will trigger attraction to all different parts of province, as such attract and retain good quality teacher. It will show them closest Towns or Cities they can reside on while teaching in rural areas. And how much accommodation cost around those areas.