

COURSERA APPLIED DATASCIENCE CAPSTONE

IBM Data Science Capstone

Week-4

**IDEA: BEST LOCATION TO BUILD A FEDERAL
INSTITUTION IN SOUTHERN EDO STATE NIGERIA**

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June,2020

Introduction

Everyone knows Education is very important. There are some Federal universities in Nigeria namely FUTA, FUTMINNA, FUTO, FUNAAB. Most are situated in the Northern and Eastern Nigeria.

Federal Government need strategic information about geographical locations to map out a plan for construction. It is important to choose a very ideal location

This will serve as an eye opener for potential investment in education

Business Problem

The objective of this capstone project is to analyze and select the best optimum location in the Southern Nigeria for the construction of a federal school. This will prompt the establishments of school, Using machine learning clustering to discover locations and also data science

Target Audience of this project

This project will help Governments in knowing appropriate locations for buildings in Southern Nigeria (edo state)

DATA

- Data required

- I. List of neighbourhoods in SOUTHERN EDO STATE NIGERIA
- II. Latitude and longitude coordinates of the neighbourhoods

- Sources of data

- I. Wikipedia page for neighbourhoods
(https://en.wikipedia.org/wiki/Category:Populated_places_in_Edo_State) ☐
- II. Geocoder package for latitude and longitude coordinates
- III. Foursquare API for venue data