

## Coursera Capstone Project

### Introduction

#### Background:

Ghana is a country along the Gulf of Guinea and the Atlantic Ocean, in the subregion of West Africa. Spanning a land mass of 238,535 km<sup>2</sup> (92,099 sq mi), Ghana is bordered by the Ivory Coast in the west, Burkina Faso in the north, Togo in the east, the Gulf of Guinea and the Atlantic Ocean in the south. *Ghana* means "Warrior King" in the Soninke language

Ghana, a beautiful West African country known for its tourist attraction sites which includes museums. Tourism is one of the main factors of the economy of Ghana and it is a source of foreign exchange.

Museums are a source of cultural heritage. They tell stories through their exhibitions, stories that can't be found in books and the ability to find these museums as a tourist is very beneficial especially to historical and cultural enthusiasts.

#### Problem:

However, there are some difficulties for a tourist to find a conclusive visual presentation of what they want to see with locations on the map and data regarding the various sites and its surroundings. Searches do not give a viable and comprehensive means of location which includes visual presentations and coordinates.

#### Data

Data collection was done through scraping Wikipedia and searching through google maps. These data was the longitude and latitude of these museums and the data of the surrounding venues were found through the foursquare API.

#### Solution:

Using the longitude and latitude of these museums, I created a recommendation engine which is enabled through creating a visual representation of these sites which included surrounding venues like hotels, restaurants and shopping areas. This makes it easier for a tourist to plan their trips and also have recommendations on museums that might interest the tourists.