
PROJECT TOPIC : ENDANGERED SPECIES CONSERVATION

Group No. : 7

Project Group Members:

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About the Project :

Big Data Analytics is a process to uncover some hidden patterns and information by applying big data techniques, by using this technique we can analyze all the data and can get the significant value from it. We know that in current scenario data can be in any form like in the form of some written text, in the form of audio files or in the form of images and it could be of any form so by applying modern big data techniques like Hadoop, MapReduce and No SQL database we can store and process these data very efficiently. Now coming to the benefit of big data in wildlife conservation and protection, we all know that wildlife plays an important role in balancing the environment and provides stability to different natural processes of nature and wildlife conservation is the practice of protecting wild plant and animal species and their habitats., so by keeping all these things in mind, by using Hadoop, machine learning and No SQL databases we will predict which endangered species will be able to recover in how much time period with the help of data of each species. With this project environmentalists will be able to know and plan the steps to take for the coming years for conservation and will also be able to get the information whether the species is sustainable in an environment or not.

Motivation:

- **Scope about your project.**

Safeguarding wildlife. This could involve hunting and fishing, pollution, quality of habitat, etc. Working with specific species. This could be doing population studies, stocking fish in reservoirs and river systems, etc. Handling administrative duties. This could be talking to other fish and game managers or environmentalists, as well as office duties, reports, etc.

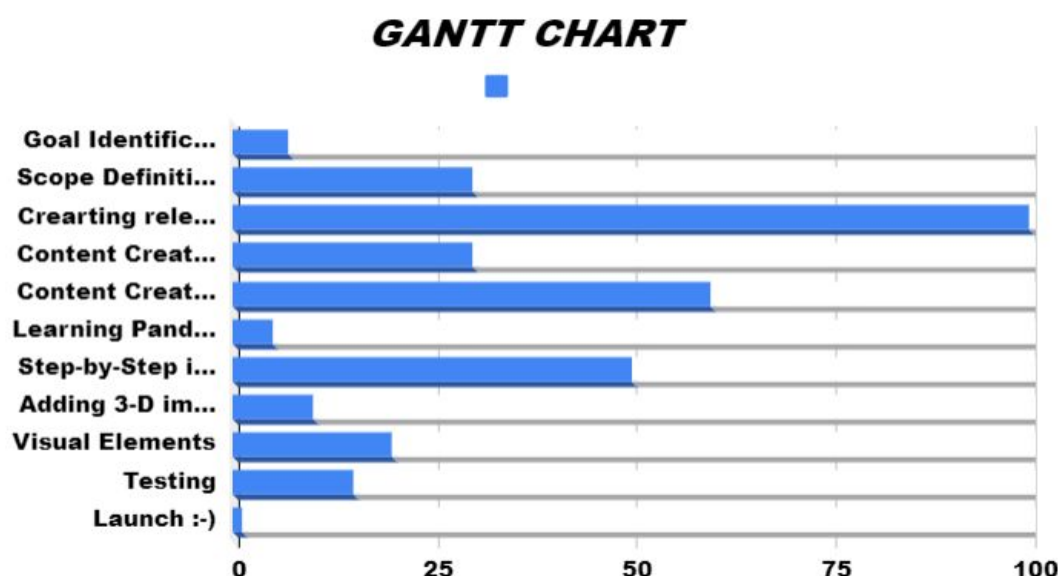
- **Why should it be counted as a major project ?**

Many species around the globe are endangered and some are very close to extinction. Government is also taking so many initiatives to improve this critical emergency so this makes it to be counted in the major project.

- **What is innovative in this project ?**

The android application of this project will also be made by which some problems like portability will get reduced and will be easy to operate. Android application should be based on location based service, by this service workers will do less efforts, they won't need to type or select anything, they will just open up the application and on the basis of their location and choices data will be fetched from database and results will get displayed.

Gantt Chart :



Graphs :

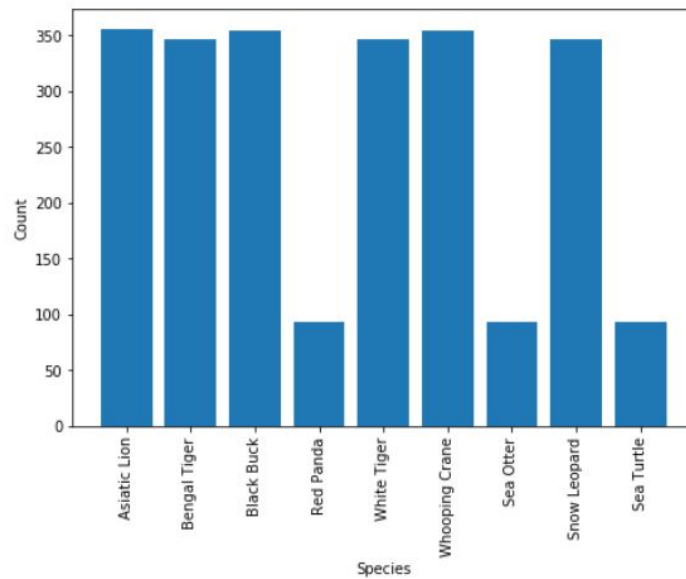


Figure 1. Species Name v/s Count

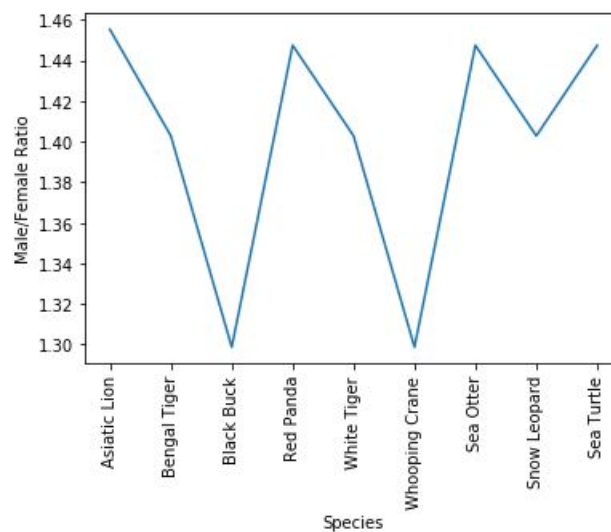


Figure 2. Male Female Ratio

Tools Required:

□ **Hardware Requirements :**

- Desktop / Laptop
- At least 4GB RAM

□ **Software Requirements :**

- GNU octave
- Operating System(Windows 10)

➤ **Technology Used :**

- Python

Signature of Project Supervisor: _____