

WELCOME TO THE NAAN MUDHALVAN PROJECT

PENGUIN CLASSIFICATION ANALYSIS

Team ID: NM2023TMID19767

Team Size: 5

TEAM DETAILS

Team Leader: GOKULA KANNAN V

Team member: HARIHARAN B

Team member: GOKULAKRISHNAN S

Team member: GURUMOORTHI K

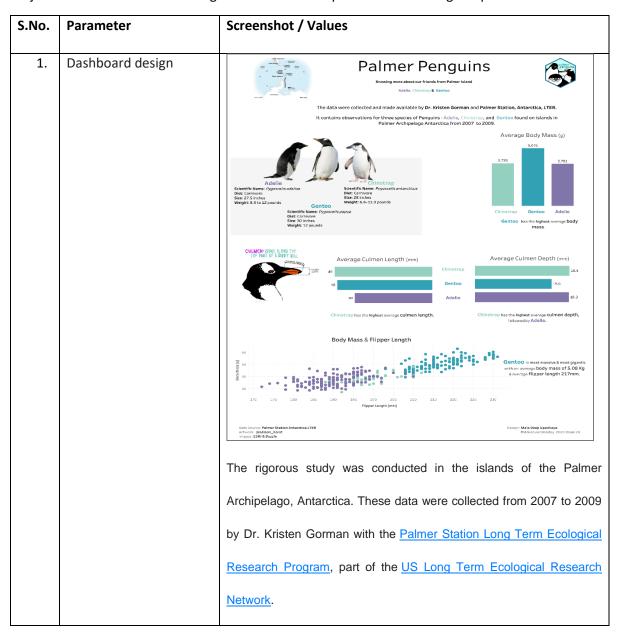
Team member: KALEESWARAN G

Project Development Phase Performance Test

Date	13 May 2023
Team ID	NM2023TMID19767
Project Name	PENGUIN CLASSIFICATION ANALYSIS

Model Performance Testing:

Project team shall fill the following information in the performance testing template.



		The original GitHub repo contains the source code. You may download the dataset from Kaggle. It has two datasets, each with 344 observations. The dataset we will be using is a curated subset of the raw dataset.
2.	Data Responsiveness	Data responsiveness in a penguin classification analysis project refers to the ability of the dashboard to handle and display data efficiently, regardless of the volume or complexity of the dataset. Here are some considerations for ensuring data responsiveness: Efficient data retrieval Data compression and optimization Pagination and lazy loading Data caching Asynchronous processing Data aggregation and summarization Progressive loading Performance monitoring and optimization
3.	Utilization of Data Filters	Data filters play a crucial role in a penguin classification analysis project as they allow users to refine and explore the data based on specific criteria. Here are some key ways to utilize data filters effectively: > Species filter > Age filter > Geographical filter > Time filter > Attribute filter > Multi-select filters > Interactive filter widgets > Filter-dependent visualizations
4.	Effective User Story	User Story: As a data analyst, I want to explore and classify penguin data accurately to gain insights into different penguin species and their characteristics, enabling better understanding and conservation efforts. Acceptance Criteria: The system should provide a user-friendly interface to interact with the penguin classification analysis. The user should be able to upload and import penguin data in a standardized format.

		The system should preprocess the data by handling missing values and outliers appropriately.	
		The doct should be dole to visualize the distribution of	
		penguin species based on attributes such as bill length,	
		body mass, and flipper size.	
		The system should provide interactive filters to	
		explore the data based on species, age, geographical	
		location, or time period.	
		The user should be able to apply machine learning	
		algorithms for penguin classification, such as decision	
		trees, logistic regression, or neural networks.	
		The system should evaluate the classification models	
		using appropriate metrics such as accuracy, precision,	
		recall, and F1 score.	
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		visualize the performance of different classification	
		models.	
5.	Descriptive Reports	Descriptive reports for a penguin classification analysis project provide a comprehensive overview of the data, analysis	
		methods, and key findings. These reports aim to communicate	
		the analysis process and results to stakeholders, researchers,	
		or decision-makers. Here are some components to include in	
		descriptive reports for a penguin classification analysis project:	
		accompanie reports for a pengam classification analysis projecti	
		Executive Summary	
		> Introduction	
		Data Description	
		Methodology	
		Results	
		Interpretation and Insights	
		Discussion	
		F Discussion	