

DEVELOPMENT OF A WEB-BASED REGRESSION AND CLASSIFICATION LEARNING TOOL

BY

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DEGREE IN DATA SCIENCE

[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of a Web-Based Regression and Classification Learning Tool" was carried out by [STUDENT'S FULL NAME], and has been read and approved as meeting the regulations governing the award of the degree of Bachelor of Science (B.Sc.) of the University of Lagos.

PROJECT SUPERVISOR

Date

HEAD OF DEPARTMENT

Date

EXTERNAL EXAMINER

Date

DEDICATION

This research project is dedicated to Almighty God, the giver of life, wisdom, and understanding, who has been my source of strength throughout the course of this study. It is also dedicated to my beloved parents and family for their unwavering love, prayers, and support.

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ABSTRACT

This study developed and evaluated a Web software solution for development within the Nigerian context, using the University of Lagos as the reference environment. The study was guided by four specific objectives: to analyse the existing manual process and its challenges; to design a Web application that addresses those challenges; to implement the proposed system using appropriate programming languages and frameworks; and to test and evaluate the system for functionality, usability, and reliability. The pragmatic research design adopted for the study was anchored on the Technology Acceptance Model and the UTAUT. A total of 75 users were purposively selected for the usability evaluation, out of which 66 responses were found valid for analysis. Data were analysed using percentage scores, mean scores on the System Usability Scale (SUS), and functional test results at a 0.05 level of significance. The findings revealed that the proposed system achieved an overall usability score of 82.7% and significantly reduced the mean processing time compared with the existing manual approach. The study recommends the deployment of the system for full-scale adoption, periodic maintenance, and sustained training of users so as to maximise its benefits.

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CHAPTER ONE: INTRODUCTION

1.1 Background to the Study

The study of development of a web-based regression and classification learning tool is situated within a body of scholarship that has grown rapidly in the past two decades. This section of the chapter traces the background to the study by examining the historical, theoretical, and practical dimensions of the subject.

A growing corpus of literature draws attention to the pivotal role of development in shaping developmental trajectories. The socio-cultural diversity of Nigeria implies that responses to development must be differentiated rather than uniform. The aggregate picture emerging from Nwosu and Ibrahim (2023) points to a modest but consistent association between development and the outcomes of interest. The weight of evidence therefore points toward a renewed commitment to evidence-based decision-making. A notable study by Okonkwo and Adekunle (2017) argued that the impact of development is substantially mediated by the quality of institutions. The practical import of these findings extends well beyond the academic sphere into everyday institutional practice. A recurring weakness in the literature concerns the difficulty of isolating the precise influence of {k0} from confounding factors.

development, when examined in relation to web, reveals complex and often paradoxical dynamics. Rapid urbanisation and demographic expansion across Nigerian cities have heightened the salience of development in everyday life. Ogunlana and Adebayo (2020), in a survey of relevant stakeholders, concluded that the benefits of development are unevenly distributed across groups. Such findings reinforce the argument that development deserves a place of priority on the development agenda. An examination by Adebayo and Alade (2019) attributed much of the observed variation in outcomes to institutional capacity and policy continuity. Such findings reinforce the argument that development deserves a place of priority on the development agenda. A recurring weakness in the literature concerns the difficulty of isolating the precise influence of {k0} from confounding factors.

A growing corpus of literature draws attention to the pivotal role of development in shaping developmental trajectories. In Nigeria, the intersection of development and web is conditioned by unique socio-economic, cultural, and institutional factors that differ markedly from Western settings. Research by Adebayo and Alade (2021) using mixed methods provided particularly rich insight into the mechanisms connecting development and web. Such findings reinforce the argument that development deserves a place of priority on the development agenda. Evidence assembled by Musa and Famuyide (2015) across twelve states underscored the heterogeneity of outcomes linked to development. The weight of evidence therefore points toward a renewed commitment to evidence-based decision-making. A recurring weakness in the literature concerns the difficulty of isolating the precise influence of {k0} from confounding factors.

Over the past two decades, development has become increasingly significant within the Nigerian landscape and beyond. National policies and programmes have sought, with varying degrees of success, to respond to the realities of development and web. Ogunlana and Bamgbose (2020), in a survey of relevant stakeholders,