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# **Forecasting the stock prices**

Ms. Jane Gathoni

and

Mr. Peter Ochieng

*A Project submitted in partial fulfilment of the requirements for the  
award of the Degree of*

**Bachelor of Science**

**in**

**Actuarial Science**

Dedan Kimathi University of Technology

2021



# Declaration by the Students

“We, *Ms. Jane Gathoni* and *Mr. Peter Ochieng*, declare that this project proposal entitled, ‘*Forecasting the stock prices*’ submitted in partial fulfilment of the degree of *Bachelor of Science in Actuarial Science*, is a record of original work carried out by us under the guidance of *Dr. Antony Ngunyi*, and has not formed a basis for the award of any other degree or diploma, in this or any other Institution or University. In line with the ethical practice in reporting scientific information, due acknowledgements have been made wherever the findings of others have been cited.”

MS. JANE GATHONI  
(S030-01-1500/2019)

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*Signature*

---

*Date*

MR. PETER OCHIENG  
(S030-01-1501/2019)

---

*Signature*

---

*Date*



# Declaration by the Supervisor

This is to certify that the project proposal entitled '*Forecasting the stock prices*' submitted by *Ms. Jane Gathoni* and *Mr. Peter Ochieng* to the Dedan Kimathi University of Technology, in partial fulfilment for the award of the degree of *Bachelor of Science in Actuarial Science*, is a bona-fide record of research work carried out by them under my supervision. The contents of this project proposal, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

DR. ANTONY NGUNYI  
(*Supervisor*)

---

*Signature*

---

*Date*

PROJECT COORDINATOR  
(*Project Coordinator*)

---

*Signature*

---

*Date*





# Dedication

*Dedicated to ....*



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# Abbreviations

**AR** Auto **R**egression



# Symbols

$a$  distance m



# Abstract

Abstract here.....



# Chapter 1

## Introduction

### 1.1 Introduction

Rigaill, (2010) bbbbb (Rigaill, 2010)  $\leq \geq$

### 1.2 Background of the Study

### 1.3 Statement of the Problem

### 1.4 Justification of the Study

### 1.5 Objectives of the Study

#### 1.5.1 General objective

The general objective of the study is to ...

#### 1.5.2 Specific objectives

The specific objectives of the study are;

- i.
- ii.
- iii.
- iv.

### 1.6 Significance of the Study

mm





## Chapter 2

# Literature Review

### 2.1 Introduction

asaascascascasc



# Chapter 3

## Methodology

### 3.1 Introduction



(a) fig caption a



(b) fig caption b



(c) fig caption c



(d) fig caption d

FIGURE 3.1: Main figure caption



## Chapter 4

# Results and Discussions

### 4.1 Introduction

### 4.2 Conclusion



## Chapter 5

# Conclusion

### **5.1 Introduction**

### **5.2 Recommendations for Further Research**





# References

Rigaill, Guillem (2010). “A pruned dynamic programming algorithm to recover the best segmentations with  $1$  to  $K_{\max}$  change-points”. In: arXiv: 1004.0887. URL: <http://arxiv.org/abs/1004.0887>.



# **Appendix**

## **A.1 Proposed Budget**

## A.2 Project Work Plan

