



SCHOOL OF TECHNOLOGY

GRADUATE RESEARCH SUPERVISION PROGRESS LOG FORM

This progress log is for you, the student and your supervisor(s) to fill every time you meet. You are required to meet with your supervisor(s) at least once fortnight. The student should be required to submit a copy of the completed form, signed by the supervisor(s), to the School of Graduate Studies & Research after each meeting. The form shall be used in tracking the student's progress.

The Log form should be kept up to date and is to be used as evidence that meetings between the student and the supervisor have actually taken place. If the student is away doing fieldwork, the form should be filled and indication made accordingly.

Name of Student: Kevin Nandi Kwatemba _____

Name of Supervisor: _Dr. Simon Mwendia_____

Name of Co-Supervisor: _____

(if applicable)

Faculty/School: _____School of Technology_____

Program: _____Msc in Data Analytics_____

Current Research Topic: Model for Predicting Cancer Risk in Low- and Middle-Income
Countries Through Algorithmic Bias Mitigation

Date: _____28//5/2025_____

Meeting Venue: _____Email_____

Issues Discussed (Please List):

Formatting

CHAPTER FOUR

Organize this chapter according to the objectives.

4.1 Introduction

Description of the content in this chapter and how it is organized (at most one paragraph)

4.2 Data Exploration data Analysis results

-Descriptive analyses and explanation of the collected data

4.3. Objective One results

-Restate the objective one and the research question one

-include results of research question one here

-Provide a summary of the attributes that were found to influence breast cancer risk prediction prediction

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4.4. Objective Two results

-Restate the objective one and the research question two here

-Include results of research question two here

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-Insert a screen shot of the developed **model** architecture and interpret it

4.5. Objective three results

Include results of research question three here

4.5.1 Testing results

- insert a figure of sample test results showing a **list of actual and predicted results**

For instance

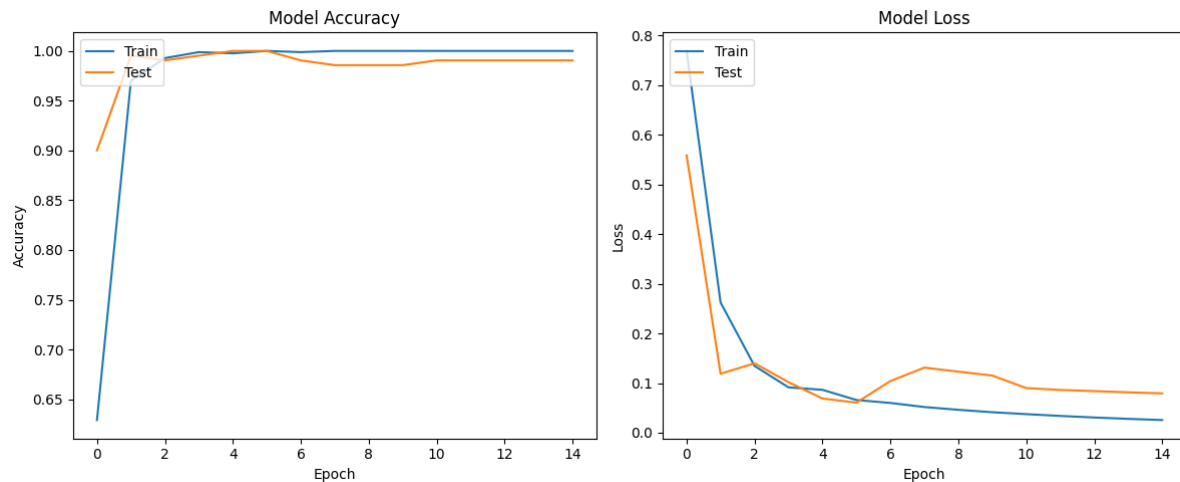
```
df = pd.DataFrame({'Real
Values':sc_y.inverse_transform(y_test.reshape(-1)), 'Predicted
Values':y_pred})
df

>>
Real Values    Predicted Values
31.707006      53.824386
76.617341      61.430210
65.101712      63.921849
85.498068      80.773056
81.536991      72.686906
79.102830      60.357810
95.244153      89.523157
52.725494      54.616087
05.455052      02.002270
```

-Interpret the results

4.5.2 Validation results

- Describe the results evaluating the performance of the model
- Use the validation metrics that include accuracy rate, confusion matrix, ROC etc. mean absolute error (MAE)
- Insert screenshots to visualize the accuracy results and interpret the results



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4.6. Discussion of results

- For each of the three objectives results, discuss the differences and similarities with results of previous studies that were reviewed in empirical review section that is in chapter two
- For each objective, use a separate paragraph.
- within each paragraph, cite the authors of the previous studies that are compared with this study

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-**Performance Metrics Comparison** can be discussed in this section

4.7. Summary of results

- at most two paragraphs summarizing the content of chapter four

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CHAPTER FIVE: CONCLUSIONS, CONTRIBUTIONS AND RECOMMENDATIONS

5.1 Introduction

-description of what is in this chapter and how it organized

5.2 Conclusions

- For each result reported in section 4.3, write a paragraph the describes a conclusion that can be derived from the result.

For example:

From objective results one, it can be concluded that.....
.....

From objective results two, it can be concluded that.....
.....

From objective results three, it can be concluded that.....
.....

5.3 Contribution

- For each result reported in chapter four write a paragraph that describes contributions of this study that can be derived from the result.

For example:

From objective results one, this is study has ...new
.....

For objective results two, this is study has developed a...new
.....

From objective results three,
.....

5.4 Recommendations to stakeholders


-For each of the objective results, describe the relevant stakeholders can use them to carry out specific actions for address the problem.

5.5 Recommendations for future research

-Describe what other studies can focus on in future

Student's Signature: _____ Date: _____

Supervisor's
Signature: _____

 **Simon
Mwenda** Digitally signed by
Simon Mwenda
Date: 2025.05.28
15:37:20 +03'00'

Date: 28/5/2025