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**UNIVERSITY OF WEST LONDON**  
**School of Computing and Engineering**

**Optimized Prompt Engineering Patterns for Credit Score Insight Generation using RAG based Large Language Models**

Submitted by:

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Date: 27-05-2025

## Dedication

This work is first and foremost dedicated to God, whose grace, wisdom, and sustaining strength enabled me to transform ideas into reality.

To my beloved wife (Jane Olanipekun) and son (Asher Olanipekun), thank you for your unwavering support, patience, and the joy you brought me throughout every stage of this journey.

To my dear mother and siblings, your prayers, encouragement, and belief in my potential have been a source of strength.

Finally, this work is also dedicated to all technology practitioners committed to making meaningful contributions and advancing the frontiers of knowledge.

## Declaration Page

I, Kolawole Olanipekun, student ID 32147420, hereby declare that this dissertation titled:

“Optimized Prompt Engineering Patterns for Credit Score Insight Generation using RAG-based Large Language Models”

is a result of my original research and work conducted as part of the requirements for the MSc in Software Engineering at the University of West London.

I confirm that all sources consulted and quoted have been appropriately acknowledged in accordance with university guidelines. This dissertation has not been previously submitted in whole or in part for the award of any degree or qualification at this or any other institution.

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Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: 27 May 2025

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## Abstract

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