**RECURRENT NEURAL NETWORK FOR AUTOMATED CONTENT GENERATION FOR MEDIA**

**SUBMITTED TO**

**THE DEPARTMENT OF COMPUTER SCIENCE**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

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**IN PARTIAL FULFILLMENT OF THE REQUIREMENT AWARD OF NATIONAL DIPLOMA (ND) IN THE DEPARTMENT OF COMPUTER SCIENCE.**

**BY**

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**CERTIFICATION**

This is to certify that this project report titled **RECURRENT NEURAL NETWORK FOR AUTOMATED CONTENT GENERATION FOR MEDIA** is an authentic and original work completed by ME in partial fulfillment of the requirements for NATIONAL DIPLOMA (ND) IN THE DEPARTMENT OF COMPUTER SCIENCE. The project report has been prepared under the guidance of **MR. OYEKUNLE** at GATEWAY (ICT) POLYTECHNIC SAAPADE, OGUN STATE.

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MR. ONALAJA DATE

(Head of Department)

**DEDICATION**

I humbly dedicate this project report to **GOD Almighty** for seeing ME through my project, and to brother for his support and encouragement.

I dedicate this project report to all the individuals who have supported and inspired me throughout this journey. Without their guidance, encouragement, and unwavering belief in our abilities, this project would not have been possible.

I would like to express our deepest gratitude to my supervisor, MR. OYEKUNLE. Her expertise, patience, and valuable insights have been instrumental in shaping this project. Her constant support and guidance have motivated me to push my boundaries and strive for excellence.

I would also like to acknowledge the support of my parents, whose love, understanding, and encouragement have been my pillars of strength. Their sacrifices and belief in my potential have motivated me to reach higher and work harder. I am grateful for their constant encouragement and for always being there for me, no matter the circumstances.

In conclusion, I dedicate this project report to all those who have been a part of my journey, directly or indirectly. Your support, encouragement, and belief in us have been invaluable. This project stands as a testament to our collective efforts and serves as a reminder of what can be achieved when we come together with a shared vision. Thank you all for being an integral part of my growth and for inspiring me to pursue excellence.

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I would like to express my sincere appreciation to the Almighty God and my parents for their valuable support, guidance, and contributions throughout the development of this project.

I would like to extend my heartfelt gratitude to MR. OYEKUNLEfor her unwavering support, invaluable insights, and expert guidance throughout the entire duration of this project. Her mentorship and expertise have been instrumental in shaping the direction and outcomes of this work.

Finally, I would like to acknowledge the unwavering support, encouragement, and patience of my friends and families. There constant belief in us and their understanding during the ups and downs of this project have been a source of strength and inspiration. Earning is an effective and useful technique that has been widely applied in a variety of fields, including computer vision, machine vision, and natural language processing. Recurrent Neural Network for Automated Content Generation for Media uses.

Recurrent Neural Network technology to manipulate images and videos of a person that humans cannot differentiate them from the real one. In recent years, many studies have been conducted to understand how . Recurrent Neural Network work and many approaches based on deep learning have been introduced to detect . Recurrent Neural Network videos or images. In this paper, I conduct a comprehensive review of . Recurrent Neural Network creation and detection technologies using deep learning approaches. In addition, give a thorough analysis of various technologies and their application in . Recurrent Neural Network detection. Our study will be beneficial for researchers in this field as it will cover the recent state-of-art methods that discover . Recurrent Neural Network videos or images in social contents. In addition, it will help comparison with the existing works because of the detailed description of the latest methods and dataset used in this domain

**ABSTRACT**

Strategic communication is an emerging and evolving paradigm of communication. The role that it has played in revolutionizing communication and introducing sustainable purposeful communication has **resulted in a number of organizations and brands’ success.** Brand resonance and corporate socialresponsiveness are key concepts that encompass strategic communication because they place stakeholder needs and emotions at the centre of all brand communication for the purpose of achieving organizational objectives. The evolution of communication over the years has welcomed new mediums of communication such as social media platforms. Social media has become an intrinsic part of disseminating brand messages and maintaining stakeholder relationships. Social media content generation have a vital role in ensuring that communication is relevant to stakeholders, especially consumers of the brand as well maintaining the relevance of the brand. However, consumers are ever growing, evolving and multi pluralistic, placing great pressure on social media content creation and brand alignment for organizations. The study seeks to understand the perceptions of social media content creators guided by the theory of co - creation using q methodology as the guiding methodology that is characterized by its use for understanding social perspectives of a particular topic. The study draws conclusions and address three research objectives that look to add to the field of strategic communication.

**KEYWORDS**

**Convolutional Neural Networks (CNNs): -** A type of deep learning model particularly effective in processing visual data, widely used for image recognition tasks.

**Machine Learning (ML)** - A branch of AI focused on building systems that learn from data to make decisions or predictions.

**Artificial Intelligence (AI) -** The broader field of creating intelligent systems capable of performing tasks that typically require human intelligence**.**

**Digital Media Security:** Measures and techniques used to protect digital media from unauthorized access, alteration, or dissemination.

**Adversarial Training:** A method of training neural networks using adversarial examples to improve robustness against deceptive inputs..

**Feature Extraction:** The process of transforming raw data into informative representations for machine learning models.

**Model Adaptation:** Adjusting and fine-tuning machine learning models to improve performance on specific tasks or datasets.

**Neural Network Architecture (NNA):** The design and structure of neural networks, including layers, neurons, and connections.

**Deep Learning (DL):** A subset of machine learning involving neural networks with many layers,

**Recurrent Neural Networks (RNNs):** Neural networks designed for sequential data processing, where outputs from previous steps are used as inputs for current steps.

**Automated Content Generation:** The use of algorithms and models to produce content automatically with minimal human input.

**Media Content Creation:** The process of developing and producing various types of content for media platforms, including text, images, and videos.

**Long Short-Term Memory (LSTM):** A type of RNN architecture that addresses the issue of long-term dependencies in sequential data by using memory cells.

**Convolutional Neural Networks (CNNs):** Neural networks that are primarily used for image processing and recognition tasks, employing convolutional layers to detect features.

**Brand Resonance:** The emotional and psychological connection between a brand and its consumers, which drives brand loyalty and engagement.

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