**Task 2: Research Project Plan:**

**Fake and authentic news detection using long short-term memory and bi-directional long short-term memory**

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# **INTRODUCTION AND JUSTIFICATION**

Fake News is an intentional and material released by some individuals and a news source that is demonstrably untrue. Fake news is now extensively circulated and has negative consequences on a variety of spheres of society, including politics, the economy, education, and lifestyle. Typically, it is produced for lack of attention and business purposes to draw customers and earn money via advertising. (S. A. Alameri & M. Mohd, 2021)

Statistics has shown that two million social media profiles are deleted each year to stop the spread of false information. Throughout the COVID-19 epidemic, there were many instances of fake news on COVID-19 (Hj Mohammad, Chinnasamy, Faizal, & Abdul Karim Zamri, 2022). Only in March 2020, a Malaysian website discovered more than 150 bogus news stories in the country. Making false reports concerning the COVID-19 is currently spreading on different social media platforms (Hj Mohammad et al., 2022)

As a result, identifying fake and authentic news on social media is crucial because of the enormous influence that these networks have owing to their huge worldwide user bases, which are further reinforced by the significant information exchange and dissemination that takes place among these users. Since a few years ago, false news has been an issue in Bangladesh as well (A. Anjum, M. Keya, A. K. Mohammad Masum, & S. R. Haider Noori, 2021). It can also hamper one’s life. Social platforms mislead different writers by spreading fake news. Some of the time, we can see that the rapidity for getting out fake report is quicker than the authentic report (A. Anjum et al., 2021)

Majority of the research that have been done in fake news detection have been with a variety of machine learning algorithms. This project is going to include deep learning algorithms such as Bi-Directional long short-term memory and long short-term memory algorithms (LSTMs)

# **2.0 RESEARCH QUESTIONS, AIMS AND OBJECTIVES**

The aim of this research is to accurately predict fake and authentic news using Long Short-Term Memory and Bi-Directional Long Short-Term Memory algorithms.

**2.1 Research Question**

The research question for this dissertation is “how the state-of-the-art deep learning algorithms will compare to the traditional machine learning algorithms in terms of the performance metrics such as accuracy, precision, recall and the f1 score?”.

**2.2 Objectives**

* I would carry out study on various academic research work that has been done on Long Short-Term Memory and Bi-Directional Long Short-Term Memory
* Study optimization methods used to enhance the functionality of Long Short-Term Memory algorithms
* Identify appropriate dataset of text data from various data science platforms such as Kaggle and social media sites such as Twitter and Facebook
* Build machine learning algorithms using the two most conventional machine learning methods used in Natural Language Processing (Naïve Bayes and the Linear Support Vector Classifier)
* Build a Normal Long Short-Term Memory and Bi-Directional Long Short-Term Memory algorithms
* Compare the machine learning methods and the deep learning methods in terms of their performance metrics to ascertain the best techniques for detecting fake and authentic news on the social media network.

**2.3 Deliverables**

Two different machine algorithms (Naïve Bayes and Linear Support Vector Classifier) and deep learning algorithms (Long Short-Term Memory and Bi-Directional Long Short-Term Memory) would be built and then optimized. The analysis will enable improved performance for fake and authentic news detection on the social media.

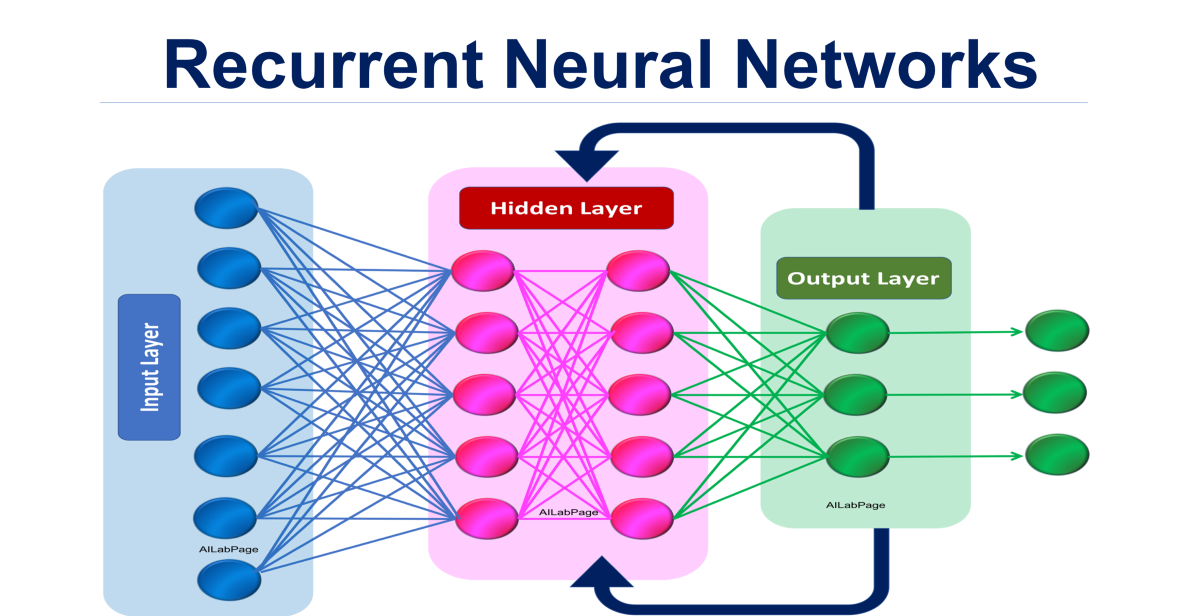
# **3.0 LITERATURE REVIEW**

During this review of relevant literature, I'll take a closer look at academic studies on neural networks and those that used Long Short-Term Memory and Bi-Directional Long Short-Term Memory for the purpose of fake and authentic news detection.

**3.1 Recurrent Neural Networks**

Sequential data processing is done for learning in a recurrent neural network (RNN). The fact that this sequential procedure can keep track of the sequences that came before the one being processed justifies it. The reason it is named recurrent is because each time step's output is used as input for the following time step. By keeping in mind, the results of the preceding time step, this is accomplished. We can then discover long-term correlations in the training data because of this.

Instead of studying each news story independently, numerous news stories can be taken into consideration for learning relative to one another in the context of NLP. RNNs consist of layers that include memory cells. Different types of memory cells can be employed in an RNN. One of these kinds of unit is the Long Short-Term Memory (LSTM) cell (Graves, 2012). As both the pattern is performed throughout each time state, LSTM also includes a memory cell and a carry in as well as the current word vector being processed. It is the carry's duty to make sure that no information is lost along the sequential procedure.



*Figure 3.1 Diagram of a recurrent neural network*

**3.2 Long Short-Term Memory**

Long Short-Term Memory networks are the type of recurrent neural networks capable of learning order dependence in sequence prediction problems. This is a behavior required in complex problem domains like machine translation, speed recognition and more. LSTMs are a complex area of deep learning. It can be hard to get your hand around what LSTMs are and how terms like bidirectional and sequence to sequence relate to the field.

According to (Felix A. Gers, et al., 1994), standard RNNs fail to learn in the presence of time lags greater than 5 – 10 discrete time steps between relevant input events and target signals. The vanishing error problem casts doubt on whether standard RNNs can indeed exhibit significant practical advantages over time window-based feedforward networks. A recent model, long short-term memory is not affected by this problem. LSTMs can learn to bridge minimal time lags more than 1000 discrete time steps by enforcing constant error flow through constant error carousels within special units called cells.

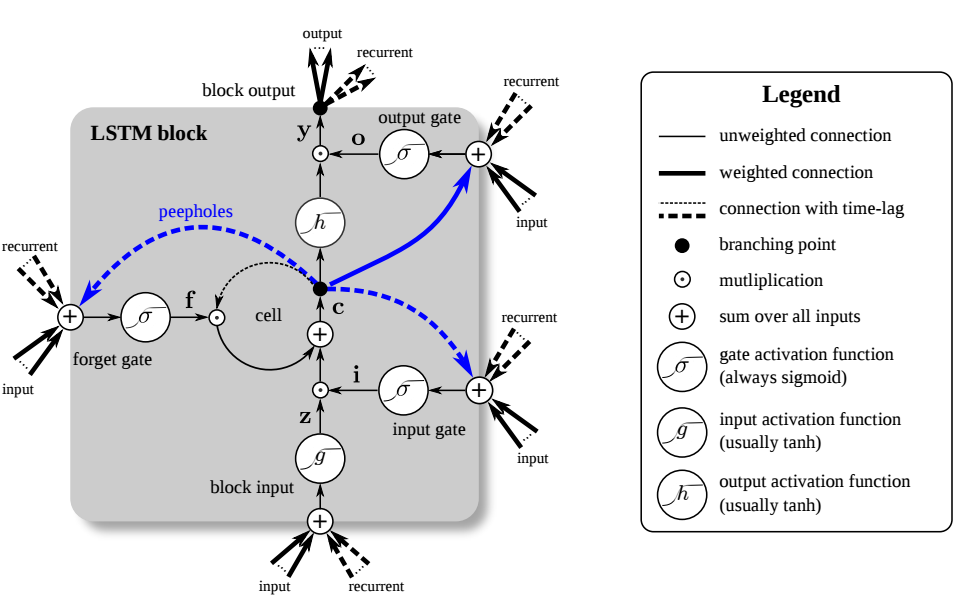
The unique internal structure of the cells utilized in the model was indeed the key to the LSTM way to solve to the technical issues. According to (Alex Graves, et al., 2009), standard RNNs can only actually access a very small amount of contextual data. The issue is that, when an input cycles through the network's recurrent connections, its impact on the hidden layer and, thus, on the output of the network, either degrades or explodes exponentially. This flaw is referred to as the gradient issue. However, Long Short-Term Memory, which is an RNN architecture, is particularly created to overcome this issue. The most common problem is creating and training RNNs, which depends on how well they can handle vanishing and exploding gradients. This issue led to the construction of the LSTM network, which has been effectively applied to translation and sequence generation. (O. Vinyals, A. Toshev, S. Bengio, & D. Erhan, 2017)

**3.3 How Long Short-Term Memory Networks Work**

(Sepp Hochreiter and Jürgen Schmidhuber, 1997) networks comprising a single hidden layer, an input layer, and an output layer are used by LSTMs. Memory cells and related gate units are present in the hidden layer, which is (completely) self-connected. Within its constant error carrousel (CEC), each memory cell's intrinsic design ensures continuous error flow. This serves as the foundation for bridging extremely lengthy delays. Within each memory cell's CEC, access to error flow is opened and closed by two gate units. The multiplicative input gate protects the CEC from being disturbed by unnecessary inputs. The multiplicative output gate similarly shields other components from being disturbed based on information in the memory that are now irrelevant.

The investigation of error flow in current RNNs, which discovered that lengthy time delays were inaccessible to existing designs because back propagated error either blows up or decays exponentially, served as the inspiration for the Long Short-Term Memory architecture. A collection of recurrently connected memory blocks makes up an LSTM layer. These units can be compared to differentiable memory chips used in digital computers. Each one has one or more memory cells with recurrent connections as well as three multiplicative units, such as input, output, and forget gates, which continuously emulate the functions of writing to, reading from, and resetting the cells. Only through the gates can the net communicate with the cells (Machine Learning Mastery, 2021)

According to (Klaus Greff, et al., 2015), one of the most popular LSTM architectures (vanilla LSTM) works admirably. The most important adjustable LSTM hyper parameters are learning rate and network size. The hyper parameters may apparently be modified individually based on this. In example, a tiny network may be used to tune the learning rate initially, saving a ton of trial time.



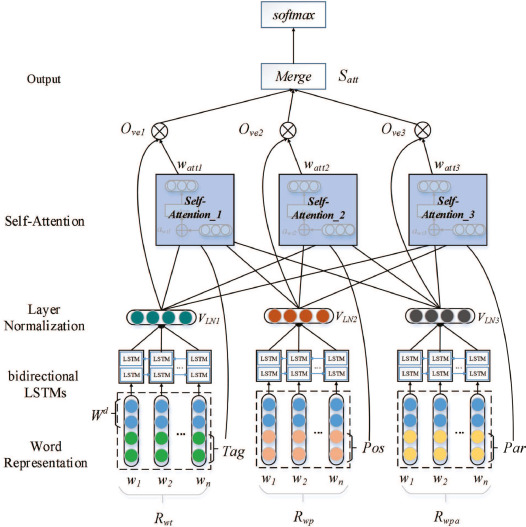
*Figure 3.2 Diagram of a LSTM neural network*

**3.4 Bi-Directional Long Short-Term Memory**

According to (Alex Graves, et., 2005) Bidirectional recurrent neural networks (BRNN) work on the fundamental premise that each training sequence is presented both forwards and backwards to two independent recurrent nets, both of which are linked to the same output layer. This implies that the BRNN has comprehensive, sequential knowledge of every point in a particular sequence, including points that come between the first and last.

Additionally, since the network is unrestricted in how much or how little of this context it uses, there is no need to identify a (task-dependent) time-window or target delay size for temporal issues like speech recognition, where depending on the previous knowledge of the future appears to violate causality at first glance. How can we base our interpretation of what we have heard on what hasn't yet been said? Human listeners, however, already do it. When seen in the context of a future event, sounds, phrases, and even entire sentences that initially had no meaning are found to make sense (Wang, Wang, Wang, & Wang, 2019)

The fact that traditional RNNs can only use prior context is one of their weaknesses. This is accomplished by two distinct hidden layers being used by bidirectional RNNs (BRNNs) to analyse the data in both ways before being sent into the same output layer. Bidirectional LSTM, provides for both input routes to access long-range context, is created by combining BRNNs with LSTM (Schuster & Paliwal, 1997)



*Figure 3.3 Diagram of a bidirectional neural network*

# **4.0 RESEARCH DESIGN**

This section will detail the research methodology, approach, and tools and strategies utilized to construct the research question to achieve the above-mentioned objectives.

The research philosophy of this study is **pragmatic** as it requires performance evaluation and measurement. The right categorization of the problem that has been recognized is fake news and authentic news, and to assess the influence on classification accuracy, various methodologies are being examined.

The purpose of this research is to determine whether certain strategies will increase picture categorization accuracy when used with a long short-term memory network. Deductive reasoning is what this is. Either the research's findings support the original premise, or they don't. This entails the validation or debunking of theories. (Saunders, Lewis, Thornhill, & Bristow, 2015)

**4.1 Methodology**

Since categorizing photos into categories leads to the categorization of fake and real news, the idea is qualitative in character. However, the process of adjusting a dataset to get close to homogeneity and the findings themselves, which are a quantitative measurement of accuracy via several factors, are both involved. A mixed-method methodological option is created when qualitative data are combined with quantitative procedures.

**4.2 Research Strategy**

The study is experimental because multiple long short-term memory network algorithms are tuned and iterated on texts from a dataset to assess various outcomes.

Time Horizon is a longitudinal concept. The same dataset will be the subject of study data collection over an extended period.

**4.3 Data Collection and Analysis**

The fake news dataset from Kaggle is employed for the purposes of this study. It is a combination of different texts. It addresses the issue of a lack of diversity and the challenge of obtaining such massive amounts of data. It is accessible to everyone via Kaggle, which solves the privacy issue. It contains texts, which are labelled as 0 and 1. 0 meaning fake news and 1 meaning authentic news. Lots of other mediums are currently researched to add more to the amount of data points for better predictive power.

**4.4 Tools and Techniques**

Python is the preferred programming language for the research since it is based on a machine learning framework. Python was chosen due to its simplicity and consistency, popularity and longevity, access to unlimited libraries in the field of machine learning research, which suggests that a sizable community exists within it. Additionally, its relative simplicity when compared to other languages and its vast library of tools for data manipulation and visualisation were factors in the decision. Scikit-learn, Keras, Pandas, Tensorflow, and Matplotlib are some of these libraries. R is a decent alternative to Python for programming. It has a steeper learning curve than Python but is fantastic for visualisation and has a good library of its own.

**Google drive** is the preferred option for online storage since it offers unrestricted, reliable, and large online storage from Google.

**Google Collab** would be used instead of a personal computer because itoffers a virtual environment with the CPU and GPU capabilities (stronger and faster than personal computers) is required to conduct machine learning activities, it would be utilised as the development environment rather than a personal computer. Linking to Google Drive to access files is equally simple. As an alternative, a well-equipped local PC can be utilised.

The Long Short-Term Memory Networks (LSTMs) and Bi-Directional Long Short-Term Memory machine learning model to be utilised employs a variety of strategies to increase model accuracy, including adjusting the sample size and number of epochs.

The research's findings will be presented as a comparative study.

# **5.0 ETHICS RISKS AND ISSUES**

**5.1 Risks**

The following list includes project risks and mitigation strategies.

|  |  |  |
| --- | --- | --- |
| **Risk** | **Impact/Likelihood** | **Mitigation** |
| Loss of data via personal computer | High/Low | Google Drive will be used as an online storage tool. |
| No access to development environment via personal computer | High/Low | Google Collab will be used as an online development environment |
| No access to the dataset | High/Low | Considered to be a publicly accessible dataset with mirror download sources |
| Underestimating the level of complexity of the research | Medium/Medium | Perform preliminary analysis of the viability of project completion using the chosen approach. |
| Delay in project completion | Medium/Low | Create an appropriate time plan |
| Lack of interaction with the supervisor | Medium/Low | Follow university guidelines and ensure that my supervisor meeting times are kept |

**5.2 Ethics**

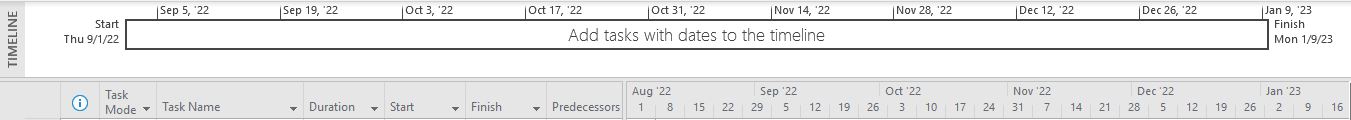
There may be relatively few to no ethical issues with the conducted study. The content of the dataset is texts of different articles; there is no means of identification to who wrote the articles. It is also publicly available for use on the data science platform Kaggle for research purposes.

# **6.0 TIME PLAN**

This project is expected to last 20 weeks from September 1, 2022, to January 9, 2023.

There would be **five (5) stages** to this research project:

* Project Initiation
* Data Preparation
* Algorithm/Model
* Results
* Project Closure



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confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1pa3lzb2Z0AAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzYAAJKSAAIAAAADMzYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Figure 6 Gantt Chart*

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# **APPENDIX A: COMPLETED RESEARCH ETHICS FORM**

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# **UREC 1 RESEARCH ETHICS REVIEW FOR STUDENT RESEARCH WITH NO HUMAN PARTICIPANTS OR DIRECT COLLECTION OF HUMAN TISSUES, OR BODILY FLUIDS.**

All University research is required to undergo ethical scrutiny to comply with UK law. The University Research Ethics Policy (<https://www.shu.ac.uk/research/excellence/ethics-and-integrity/policies>) should be consulted before completing the form. The initial questions are there to check that completion of the UREC1 is appropriate for this study. The supervisor will approve the study, but it may also be reviewed by the College Teaching Program Research Ethics Committee (CTPREC) as part of the quality assurance process (additional guidance can be obtained from your College Research Ethics Chair[[1]](#footnote-1))

The final responsibility for ensuring that ethical research practices are followed rests with the supervisor for student research.

Note that students and staff are responsible for making suitable arrangements to ensure compliance with the General Data Protection Regulations (GDPR), for keeping data secure and if relevant, for keeping the identity of participants anonymous. They are also responsible for following SHU guidelines about data encryption and research data management. Guidance can be found on the SHU Ethics Website <https://www.shu.ac.uk/research/excellence/ethics-and-integrity>

Please note that it is mandatory for all students to only store data on their allotted networked drive space and not on individual hard drives or memory sticks etc.

The present form also enables the University and College to keep a record confirming that research conducted has been subjected to ethical scrutiny. Students should retain a copy for inclusion in their research projects, and a copy should be uploaded to the relevant module Blackboard site.

The form must be completed by the student and approved by supervisor and/or module leader (as applicable). In all cases, it should be counter-signed by the supervisor and/or module leader and kept as a record showing that ethical scrutiny has occurred. Students should retain a copy for inclusion in the appendices of their research projects, and a copy should be uploaded to the module Blackboard site for checking.

Please note that it may be necessary to conduct a health and safety risk assessment for the proposed research. Further information can be obtained from the [University’s Health and Safety Website](https://sheffieldhallam.sharepoint.com/sites/3005/healthandsafety/HRRRC/SitePages/Risk-Assessment-Toolkit---Teaching-and-Research.aspx)

## **1. General Details**

| **Details** |  |
| --- | --- |
| Name of student | Sopuruchi Michael Emesike |
| SHU email address | C1057225@my.shu.ac.uk |
| Department/College | Computing |
| Name of supervisor |  |
| Supervisor’s email address |  |
| Title of proposed research | Fake and Authentic news detection using Long Short-Term Memory and Bi-Directional Long Short-Term Memory |
| Proposed start date | 5 September 2022 |
| Proposed end date | 9 January 2023 |
| Brief outline of research to include, rationale (reasons) for undertaking the research & aims, and methods (250-500 words). | For as long as I can remember I have been fascinated in detecting misleading information on the internet. I became aware that people rarely think about whether an item is false when they share it. My research interest in identifying fake news dates to my first Assessment course in Programming concepts and practice, which requires us to design a system that detects fraud transaction using bank customer purchasing transaction data, when my passion for fake news was ignited to use some deep learning algorithm to detect fake and authentic news on online social networks  Like we all are aware that information sharing on the internet in our world today particularly via social media platforms is increasing ([Allcott et al., 2019](https://www.sciencedirect.com/science/article/pii/S2667096820300070" \l "bib0003)). It is critical to be able to recognize, assess, and respond to such information. Fake news is spread throughout the internet, either intentionally or accidentally (Kong, 2020.) This is harming a bigger segment of society that has become oblivious to this scientific know-how. According to Anika and co-researchers, most of the readers can’t identify the false news. For this purpose, formed my research interest on using Long Short-Term Memory and Bi-Directional Long Short-Term Memory approaches for identify fake and authentic news. With the use of Machine learning and deep learning techniques processing, my research will show a model and approach for detecting false news from social media, writeups or news articles. Various feature engineering approaches, such as count vector, TF-IDF, and word embedding, will be employed to build feature vector in this research.  My research will source for datasets from Kaggle to confirm Long Short-Term Memory (LSTM) and Bi-Directional Long Short-Term Memory (Bi-LSTM) model to be the best performing model for fake and authentic news detection (S. A. Alameri & M. Mohd, 2021). Since categorizing photos into categories leads to the categorization of fake and real news, the idea is qualitative in character. However, the process of adjusting a dataset to get close to homogeneity and the findings themselves, which are a quantitative measurement of accuracy via several factors, are both involved. A mixed-method methodological option is created when qualitative data are combined with quantitative procedures. |

I confirm that this study does not involve collecting/using data or samples from human participants

Please tick □

## **2. Research in external organizations**

| **Question** | **Yes/No** |
| --- | --- |
| 1. Will the research involve working with/within an organization (e.g., school, business, charity, museum, government department, international agency, etc.)? | No |
| 1. If you answered YES to question 1, do you have granted access to conduct the research?   *If YES, students please show evidence to your supervisor. PI should retain safely.* |  |
| 1. If you answered NO to question 2, is it because:    1. you have not yet asked    2. you have asked and not yet received an answer    3. you have asked and been refused access.   *Note: You will only be able to start the research when you have been granted access.* |  |

## **Research with Products and Artefacts**

| **Question** | **Yes/No** |
| --- | --- |
| 1. Will the research involve working with copyrighted documents, films, broadcasts, photographs, artworks, designs, products, programs, databases, networks, processes, existing datasets, or secure data? | No |
| 2. If you answered YES to question 1, are the materials you intend to use in the public domain?  *Notes: ‘In the public domain’ does not mean the same thing as ‘publicly accessible’.*   * *Information which is 'in the public domain' is no longer protected by copyright (i.e., copyright has either expired or been waived) and can be used without permission.* * *Information which is 'publicly accessible' (e.g., TV broadcasts, websites, artworks, newspapers) is available for anyone to consult/view. It is still protected by copyright even if there is no copyright notice. In UK law, copyright protection is automatic and does not require a copyright statement, although it is always good practice to provide one. It is necessary to check the terms and conditions of use to find out exactly how the material may be reused etc.*   *If you answered YES to question 1, be aware that you may need to consider other ethics codes. For example, when conducting Internet research, consult the code of the Association of Internet Researchers; for educational research, consult the Code of Ethics of the British Educational Research Association.* |  |
| 3. If you answered NO to question 2, do you have explicit permission to use these materials as data?  *If YES, please show evidence to your supervisor.* | YES |
| 4. If you answered NO to question 3, is it because:  A. you have not yet asked permission  B. you have asked and not yet received and answer  C. you have asked and been refused access.  *Note You will only be able to start the research when you have been granted permission to use the specified material.* | **A/B/C** |

1. **Does this research project require a health and safety risk assessment for the procedures to be used?** Discuss this with your supervisor and consult the [Risk Assessment Toolkit](https://sheffieldhallam.sharepoint.com/sites/3005/healthandsafety/HRRRC/SitePages/Risk-Assessment-Toolkit---Teaching-and-Research.aspx) for teaching research.

Yes

No

(If **YES** the completed Health and Safety Risk Assessment form should be attached). You can find a Blank/Sample Risk Assessment Form at the Checklist, Generic and TORS Risk Assessments on the [Risk Assessment Toolkit](https://sheffieldhallam.sharepoint.com/sites/3005/healthandsafety/HRRRC/SitePages/Risk-Assessment-Toolkit---Teaching-and-Research.aspx)

## **Adherence to SHU policy and procedures**

| **Ethics sign-off** | |
| --- | --- |
| **Personal statement** | |
| I can confirm that:   * I have read the Sheffield Hallam University Research Ethics Policy and Procedures * I agree to abide by its principles. | |
| **Student** | |
| Name: Sopuruchi Michael Emesike | Date: 19 August 2022 |
| Signature: Sopuruchi Michael Emesike | |
| **Supervisor or another person giving ethical sign-off** | |
| I can confirm that completion of this form has confirmed that this research does not involve human participants. The research will not commence until any approvals required under Sections 2 & 3 have been received and any health and safety measures are in place. | |
| Name: | Date: |
| Signature: | |
| Additional Signature if required: | |
| Name: | Date: |
| Signature: | |

**Please ensure that you have attached all relevant documents. Your supervisor must approve them before you start data collection:**

| **Relevant Documents** | **Yes** | **No** | **N/A** |
| --- | --- | --- | --- |
| Research proposal if prepared previously |  |  |  |
| Any associated materials (e.g., posters, letters, etc.) |  |  |  |
| Health and Safety Risk Assessment Form |  |  |  |

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   College of Health, Wellbeing and Life Sciences –Dr. Nikki Jordan-Mahy ([n.jordan-mahy@shu.ac.uk](mailto:n.jordan-mahy@shu.ac.uk) ) [↑](#footnote-ref-1)