

FAKE NEWS DETECTION

A Project Work Synopsis

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BACHELOR OF ENGINEERING

IN

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ENGINEERING (hons) BIG DATA

ANALYTICS

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Table of Contents

1. INTRODUCTION:

- a) Problem definition
- b) Hardware specification
- c) Software specification

2. PROBLEM FORMULATION

3. RESEARCH OBJECTIVE

4. METHODOLOGY

➤ **INTRODUCTION**

- Data has been increasing at an unprecedented range in an exponential manner and is producing 2.7 quintillion bytes of data everyday.
- The definition of fake news is information that pushes people down the wrong road. Fake news is spreading like wildfire these days, people are sharing it without confirming it. This is frequently done to promote or impose specific views and it is frequently accomplished through political agendas.
- As a result, it is vital to recognize phoney news.

Types of Fake news and patterns that help in detection

- Visual based: These false news posts make extensive use of graphics as compared to content, which may include manipulated photographs, doctored video or combination of the two.
- User generated news: This sort of falsified news is generated by phoney accounts and is targeted to certain audiences, which might reflect specific age groups, gender, culture or political affiliations.
- Knowledge based: These posts provide scientific explanations to some unresolved problems, leading people to feel they are genuine.

- Style Based: Pseudo journalists who impersonate and mimic the style of some accredited journalists write style base posts.
- Stance bases: It is a portrayal of true statements in such a way that its meaning and purpose are altered.

➤ **PROBLEM STATEMENT**

- The spreading of fake news becomes especially dangerous during times like elections or pandemic situations. Fake rumors and misinformation that pose harm to human lives are threatening to people and the society. Fake news needs to be detected and prevented early, before it causes panic and spreads to a large number of people.
- Fake news have become more prevalent in recent years and with great amount of dynamism in internet and social media, differentiation between facts and opinions, relating to commercial or political upheavals has become more difficult than ever.
- Fake information is purposely or unintentionally spread throughout the internet. The massive dissemination of fake news has left an indelible mark on people and culture.

HARDWARE REQUIREMENT:

System with windows installed
Good and stable internet connection

SOFTWARE REQUIREMENT:

Notebook installed on system.
Pandas installed on system.
Sklearn installed on system.

➤ **PROBLEM FORMULATION**

- We have used various processing methodologies like removal, cleaning, analyzing dataset and applying machine learning classification algorithms – logistic regression, to build a model that differentiates between fake news and real news.

➤ OBJECTIVES

The main objective is to detect the fake news, which is a classic text classification problem with a straight forward proposition. It is needed to build a model that can differentiate between “Real” news and “Fake” news.

➤ **METHODOLOGY**

- The fake news model detection is built using steps like
- Text collection
- Text Processing
- Feature Extraction
- Finally classification using different classifiers

