

# Fake News Detection System

## 1.0 PROJECT OBJECTIVES

The Fake News Detection system created by GEAT Sdn. Bhd was intended to develop an artificial intelligence system that is able to detect and differentiate the fake news from the real ones. Moreover, this system can help to stop the spread of disinformation and fake news with AI-powered fact-checking and image verification and to determine whether the information is reliable.

## 2.0 SUMMARY OF PROJECT RESULTS

Upon the completion of the system, we tested the system's accuracy and found that it had a 79% accuracy.

## 3.0 ORIGINAL AND ACTUAL SCHEDULE

Some of the phases were pushed back as the team members had trouble with time management but the project was done according to the finished date.

Milestone	Scheduled Completion	Actual Completion
Planning	10 February 2021	12 February 2021
Design	10 March 2021	11 March 2021
Development	30 March 2021	5 April 2021
Testing	21 April 2021	22 April 2021
Implementation	30 April 2021	30 April 2021

## 4.0 ORIGINAL AND ACTUAL BUDGET

The actual budget matches the original budget. The team has followed the budget planned at the beginning of the project and did not any extra money.

Project Name Fake News Detection					
SRFB # 0287984673					
Sponsor Astro Awani					
	OVERALL PROJECT	GRANT REQUEST	PRISM MATCH	MATCH NOT IN PRISM	Budget Check
	Cost	Amount	Amount	Amount	
Sheet #1 Acquisition					
Property Costs	\$ 412,500	\$ 185,000	\$ 227,500	\$ -	0
Incidental Costs	\$ 17,660	\$ 16,260	\$ 1,400	\$ -	0
Administrative Costs	\$ 18,900	\$ 15,900	\$ 3,000	\$ -	0
Indirect Costs	\$ 400	\$ 400	\$ -	\$ -	
STotal	\$ 449,460	\$ 217,560	\$ 231,900	\$ -	0
Sheet #2 Design					
Design Costs	\$ 140,300	\$ 44,300	\$ 96,000	\$ -	
Indirect Costs	\$ 40	\$ 40	\$ -	\$ -	
STotal	\$ 140,340	\$ 44,340	\$ 96,000	\$ -	0
Sheet #3 Restoration					
Construction Costs	\$ 52,500	\$ 14,000	\$ 3,000	\$ -	35,500
AA&E	\$ 9,900	\$ -	\$ -	\$ -	9,900
Indirect Costs	\$ -	\$ -	\$ -	\$ -	
STotal	\$ 62,400	\$ 14,000	\$ 3,000	\$ -	45,400
GTOTAL	\$ 652,200	\$ 275,900	\$ 330,900	\$ -	45,400
Total PRISM Project Budget \$ 606,800					

Task	Estimated Costs(\$)	Notes
Acquisition	449,460	Preparation before start the development process of the system
Design	140,340	Data collection, system design
Restoration	17,000	Installation of software & materials required, system maintenance
TOTAL	606,800	Estimated total

## 5.0 PROJECT ASSESSMENT

### 5.1 SCOPE

The project scope was initialized since the beginning of the project. The Fake News Detection followed the scope where Data Science and Machine Learning is to be implemented to identify the fake news. The fake news detection system does not have a specific restriction towards the news that is to be differentiated.

## **5.2 OBJECTIVES**

The objectives set in the beginning of the project was met. The system used Data Science and Machine Learning to satisfy the objectives whilst implementing artificial intelligence methods. Through both methods, the system can identify fake news and real news. Tkinter was used for the user interface for this system. Thus, it can be concluded that the project's objective was met.

## **5.3 IMPACTS**

The Fake News Detection system is not only able to prevent fake news from spreading yet it can also help to identify reliable sources or not. The news that we may consume every day may be from wrong websites that only spreads fake news, and this may cause miscommunication among the consumers. Thus, not only can this system battle any misinformation, but may also benefit the mass by preventing any fake news from spreading.

## **6.0 TRANSITION PLAN**

GEAT Sdn. Bhd staff will provide support when require. The main work of support provided by GEAT Sdn. Bhd on the Fake News Detection system project are as shown below:

- i) Maintain the system
- ii) Handle errors and manage updates for the Fake News Detection system
- iii) Provide user guidelines for Astro AWANI Network Sdn. Bhd staff to use the system
- iv) Report information to senior management on monthly basis