Project Initialization and Planning Phase

Date	23 September 2024
Team ID	LTVIP2024TMID25030
Project Title	FAKE NEWS ANALYSIS IN SOCIAL MEDIA
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview	
Objective	The primary objective is to revolutionize fake news detection on social media platforms by implementing advanced machine learning techniques, ensuring faster and more accurate identification of misinformation
Scope	The project comprehensively assesses and enhances the detection of fake news, incorporating machine learning for a more robust and efficient system
Problem Statement	
Description	The spread of fake news on social media undermines public trust and contributes to misinformation, adversely affecting societal stability and informed decision-making
Impact	Addressing these issues will result in improved public awareness, reduced misinformation, and a more credible information environment on social media platforms, contributing to socieral well-being and trust in digital content
Proposed Solution	
Approach	Employing machine learning techniques to analyze and predict the credibility of content shared on social media, creating a dynamic and adaptable fake news detection system

Key Features	• Implementation of a machine learning-based fake news detection algorithm • Real-time content analysis for misinformation patterns and source credibility

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	T4 GPU
Memory	RAM specifications	16 GB
Storage	Disk space for data, models, and logs	2 TB SSD
Software		
Frameworks	Python frameworks	TensorFlow, Keras
Libraries	Additional libraries	Scikit-learn, pandas, numpy, matplotlib, nltk
Development Environment	IDE, version control	Jupyter Notebook, PyCharm
Data		
Data	Source, size, format	Kaggle dataset, Twitter, Facebook datasets, CSV, JSON formats