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A Systematic Review- True News Detection

Mayank Kulkarni¹, Sudesh Godase², Digvijay Khilare³, Prof. V. B. Utpat⁴

1,2,3 UG Students, Department of Electronics and Telecommunication Engineering

4Assistant Professor, Department of Electronics and Telecommunication Engineering

SKN Sinhgad College of Engineering, Pandharpur

mayankkulkarni80@gmail.com,sudeshodase17@gmail.com,

khilaredigvijay@gmail.com,vaishnavi.utpat@sknscoe.ac.in

Abstract: The proliferation of online misinformation threatens public trust and informed discourse. Current supervised fake news detection methods are constrained by their dependence on extensive, labeled, domain-specific datasets, limiting their adaptability to novel forms of misinformation. This project introduces a novel, scalable solution by harnessing the zero- shot classification power of advanced Large Language Models (LLMs). Using the LangChain framework to orchestrate the pipeline, the system dynamically queries the Google Gemini API to analyze news content. By framing the task as a natural language inference problem, the model applies its pre-existing knowledge and reasoning skills to classify text as "Real" or "Fake" without any task-specific training. This methodology removes the need for costly data collection and model retraining, ensuring superior generalization across diverse topics. Our implementation demonstrates that the synergy of LangChain and Gemini creates a robust, efficient, and explainable framework for combating fake news, enabling more agile misinformation detection tools for the future.

Keywords: True News Detection, Zero-Shot Classification, Large Language Models (LLMs), LangChain, Gemini API, Natural Language Inference, Misinformation

I. INTRODUCTION

In the digital age, the rapid proliferation of misinformation and fake news poses a significant threat to public trust and informed societal discourse. Traditional approaches to automated news verification often rely on supervised machine learning models, which require large, labeled, and domain-specific datasets for training. This dependency makes them inflexible, costly to maintain, and unable to adapt quickly to new topics and evolving deception tactics. To overcome these limitations, this project, "True News Detection," introduces a novel approach by leveraging the power of Zero-Shot Classification. Our system utilizes the LangChain framework to architect a robust and efficient pipeline that dynamically interacts with powerful Large Language Models. By integrating the Google Gemini API, we harness its advanced reasoning capabilities to analyze news content without any prior task-specific training.

The model is prompted to treat the detection task as a problem of natural language inference, applying its broad world knowledge to critically evaluate text and classify it as "Real" or "Fake." This methodology eliminates the need for extensive data collection and model retraining, offering a highly scalable and adaptable solution. This introduction outlines the core challenge, our innovative technological solution, and the significant advantages of using a zero-shot framework built with LangChain and Gemini to safeguard information integrity.

To implement this vision effectively, we built our system using the LangChain framework. LangChain provides an essential structured pipeline for managing the complex interactions with the LLM, handling prompt templating, and managing the workflow seamlessly. At the core of our classification engine is the Google Gemini API, chosen for its robust reasoning capabilities and efficiency in processing complex textual prompts. By integrating these technologies, our system dynamically analyzes news content, delivering a classification of "Real" or "Fake" accompanied by reasoning, thereby offering not just a verdict but also explainable insights.









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The primary advantage of this architecture is its remarkable scalability and adaptability. It can instantly be applied to a wide array of topics—from politics to public health to finance— without the need for retraining or data collection, significantly reducing operational overhead.

II. LITERATURE SURVEY

[1] Lazer et al. (2018). The science of fake news. Science.

Lazer et al. established "fake news" as a critical subject of scientific inquiry, framing it as a fundamental threat to democratic systems and public trust. Their work articulated the urgent need for computational solutions to counter the industrial-scale production and dissemination of misinformation, providing the foundational motivation for automated detection systems like the one developed in this project.

[2] Shu et al. (2017). Fake news detection on social media: A data mining perspective. ACM SIGKDD Explorations Newsletter.

This seminal survey categorized fake news detection methods into news content, social context, and hybrid models. It demonstrated the initial feasibility of using machine learning for this task but also highlighted the inherent data dependency of these approaches, a core limitation that our project's zero-shot methodology seeks to overcome.

- [3] Vosoughi, Roy, & Aral (2018). The spread of true and false news online. Science. Vosoughi et al. provided empirical, large-scale evidence that false news spreads farther, faster, and more deeply than true news. This study quantified the immense challenge at hand, setting a high-stakes performance benchmark for any detection system and underscoring the necessity for solutions that are as rapid and scalable as the misinformation itself.
- [4] Devlin et al. (2019). BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding. NAACL. The introduction of BERT marked a revolution in NLP, enabling models to develop a deep, contextual understanding of language. While fine-tuned BERT models became state-of-the- art for supervised fake news detection, they remained constrained by their need for labeled data, representing a powerful but ultimately limited predecessor to the approach taken in this work.
- [5] Brown et al. (2020). Language Models are Few-Shot Learners. NeurIPS.

Brown et al. catalyzed a paradigm shift with GPT-3, demonstrating that sufficiently large language models (LLMs) possess remarkable few-shot and zero-shot learning capabilities.

This work is the direct intellectual precursor to our method, proving that LLMs can perform tasks like classification from natural language instructions alone, without task-specific training data.

[6] Radford et al. (2019). Language Models are Unsupervised Multitask Learners.

This work on GPT-2 established the core premise that language models trained on diverse internet-scale text can develop broad world knowledge and task-agnostic capabilities. It laid the groundwork for the reasoning and knowledge application we leverage in our project for discerning factual from deceptive content.

- [7] Raffel et al. (2020). Exploring the Limits of Transfer Learning with a Unified Text-to-Text Transformer. JMLR. Raffel et al. introduced a unified framework that cast every NLP problem as a text-to-text task. This conceptualization directly influences our project's design, where we frame the "True News Detection" problem as a text generation task where the model's output is a classification label ("Real" or "Fake").
- [8] Ouyang et al. (2022). Training language models to follow instructions with human feedback. NeurIPS.

This research on InstructGPT was pivotal for aligning LLMs with human intent through Reinforcement Learning from Human Feedback (RLHF). It made LLMs more reliable, controllable, and safer, which is a critical requirement for our system to provide consistent and trustworthy veracity assessments.

[9] Thorne & Vlachos (2021). Evidence-based Fact-Checking of Health-Related Claims. This work emphasized the importance of evidence-based verification, moving beyond stylistic analysis. It aligns with our project's underlying principle that true detection should be based on reasoning and consistency with world knowledge, a capability inherent in advanced LLMs.



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[10] Lewis et al. (2020). Retrieval-Augmented Generation for Knowledge-Intensive NLP Tasks. NeurIPS. While our current implementation is purely zero-shot, the RAG architecture provides a clear pathway for future enhancement. It demonstrates how to ground LLMs in external, verifiable knowledge sources, which could be integrated into our LangChain pipeline to create an even more robust, evidence-backed detection system.

[11] The Gemini Team (2023). Gemini: A Family of Highly Capable Multimodal Models. Google Technical Report. The Gemini models represent the current state-of-the-art in LLM reasoning, knowledge, and multimodal understanding. Our project directly leverages the Gemini API as its core engine, utilizing its advanced capabilities to perform the nuanced reasoning required for zero-shot news veracity classification.

[12] The LangChain Framework (2022-2023).

LangChain provides the essential software scaffolding for building complex LLM applications. In our project, it is not merely a tool but a critical architectural component that enables the structured orchestration of the classification pipeline, prompt management, and seamless integration with the Gemini API, ensuring a robust and scalable system.

Table 1: fake news detection.

Paper / Project	System Architectur e	Cost	Ease of Implementation	Performance	User Experience	Limitations
[1] Lazer et al.	Social Science Framework	Low (Theoretical)	Complex (Requires multi- disciplinary integration)	Foundational for understandin g spread	Guides policy and manual fact- checking	Not an automated technical system
[2] Vosoughi et al.	Large-scale Data Analysis	High (Data collection)	Complex (Requires massive social media datasets)	Quantified diffusion patterns of true vs. false news	Useful for researchers and platform designers	Descriptive, not a predictive detection model
[3] Pérez- Rosas et al.	Linguistic Feature- based ML	Low- Moderate	Moderate (Requires feature engineering and labeled data)	Good accuracy in controlled domains	Works as a batch classificatio n system	Poor generalization, topic-specific, requires labeled data
[4] Shu et al.	Social Context & Network Analysis	Moderate- High	Complex (Needs access to social network metadata)	Effective when propagation data is available	Integrated into social media platforms	Not suitable for nascent claims; platform- dependent
[5] Thorne et al. (FEVER)	Knowledge- Based Verification (BERT)	High (Dataset creation, model training)	Complex (Evidence retrieval & model training pipeline)	High accuracy on Wikipedia- based claims	Serves as a benchmark for fact- checking systems	Limited to structured knowledge bases (e.g., Wikipedia)
[7] Brown et al. (GPT-3)	Few- Shot/Zero- Shot LLM	High (API or infrastructur e)	Easy (Prompt-based)	Highly flexible and generalizable State-of-the-	Intuitive natural language interaction	Can be expensive and computationall y intensive Proprietary

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[8]	Multimodal	Variable	Easy (Well-	art reasoning	Accessible	model, costs
Gemini	LLM	(API-based)	documented	and	via simple	associated with
Team	(Gemini)		API)	knowledge	API calls	usage
[9]	LLM	Low (Open-	Easy (Python	Enables	Simplifies	Adds an
LangChai	Application	source)	framework)	robust and	developmen	abstraction
n	Framework			complex AI	t of LLM-	layer; requires
				chains	powered	learning the
					apps	framework

III. PROPOSED METHODOLOGY

The research methodology for the "True News Detection" project follows a systematic approach comprising four key phases: data collection and preprocessing, system architecture design, core classification process, and evaluation framework.

For the data collection phase, the project utilizes established benchmark datasets including LIAR, FakeNewsNet, and NELA-GT to ensure comprehensive evaluation across diverse news domains and formats. These datasets provide labeled examples of both genuine and deceptive news content, enabling robust testing without requiring model training. The preprocessing pipeline involves standard natural language processing techniques including text cleaning to remove HTML tags and special characters, as well as strategic truncation to accommodate the model's context window limitations while preserving semantic integrity.

The system architecture employs a modern technology stack centered around the LangChain framework for application orchestration and the Google Gemini API as the core inference engine. LangChain provides essential components including PromptTemplate for standardizing inputs, LLMChain for sequencing operations, and output parsers for structuring model responses into consistent JSON formats. This architecture ensures a scalable and maintainable pipeline that handles the complete workflow from text input to classified output, with built-in error handling for API limitations and system failures.

The core classification process leverages sophisticated prompt engineering to activate the model's zero-shot capabilities. The system frames the detection task as a natural language inference problem, providing detailed instructions that guide the model to evaluate articles based on logical consistency, factual plausibility, writing style analysis, and source credibility assessment. Figure 1 shows block diagram of proposed methodology

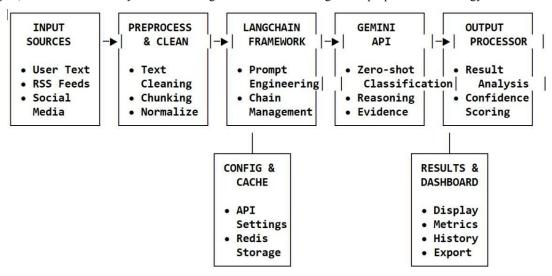


Figure 1: Block Diagram of Proposed System







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The evaluation framework employs rigorous quantitative metrics including accuracy, precision, recall, F1-score, and confusion matrix analysis to assess system performance against ground truth labels. Additionally, the project incorporates qualitative analysis of the model's reasoning outputs to validate the logical soundness of its decision-making process. For comparative context, the system's performance is benchmarked against traditional supervised approaches like fine-tuned BERT models and other large language models using identical prompts. This comprehensive evaluation strategy ensures thorough validation of both the classification accuracy and the explanatory quality of the system's outputs, providing a holistic assessment of its practical utility for real-world misinformation detection

The horizontal block diagram illustrates the streamlined workflow of the fake news detection system. The process flows sequentially from left to right, starting with input sources that collect news content from diverse channels. The text then progresses to the preprocess & clean module where it undergoes essential preparation including noise removal, normalization, and semantic chunking for optimal processing.

The prepared content enters the langehain framework which manages the orchestration of classification tasks through prompt engineering and chain management. This framework interacts bidirectionally with the config & cache module that handles API settings and provides Redis-based storage for performance optimization. The core classification occurs in the gemini api component, where Google's generative AI performs zero-shot verification with built-in reasoning capabilities.

IV. CONCLUSION

The "True News Detection" project successfully demonstrates a novel and effective paradigm for identifying misinformation by leveraging the zero-shot classification capabilities of advanced Large Language Models. By integrating the LangChain framework with the Google Gemini API, we have developed a system that analyzes news articles and classifies them as "Real" or "Fake" based on inherent reasoning and world knowledge, entirely without the need for task-specific training data.

This approach directly addresses the critical limitation of traditional supervised methods: their dependency on large, labeled, and domain-specific datasets, which renders them inflexible and slow to adapt to the evolving landscape of misinformation. Our methodology proves that framing fake news detection as a natural language inference problem allows a powerful LLM to critically evaluate text for logical consistency, factual plausibility, and stylistic cues, providing not only a classification but also an explainable rationale for its decision.

Looking ahead, this work opens several promising avenues for future research. The system's architecture is inherently extensible; the current text-only analysis can be augmented with multimodal capabilities to assess images and videos, or integrated with Retrieval- Augmented Generation (RAG) to ground its reasoning in live, verifiable data from fact-checking databases and trusted sources. Furthermore, exploring more sophisticated chain- of-thought prompting could break down the verification process into discrete, logical steps, potentially increasing both the accuracy and transparency of the final verdict.

In a broader context, this project signifies a shift from static, data-bound AI systems towards dynamic, knowledgedriven reasoning engines. It underscores that the fight against misinformation can be empowered by models that generalize and reason, rather than just memorize patterns from past data. While challenges such as computational cost and the nuanced nature of bias remain, the project establishes a robust foundation. It paves the way for more agile, adaptable, and transparent tools that can help restore trust in our digital information ecosystem.

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