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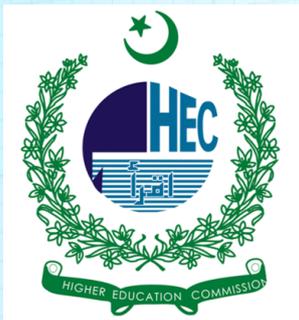
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Phonological Patterns in Digital Communication: An Analysis of Sound-Based Spellings



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Abstract

Digital communication has transformed the way people use written language, leading to the emergence of non-standard spelling forms that reflect spoken pronunciation. This study investigates phonological patterns in digital communication with a particular focus on sound-based spellings used in online messages. The research aims to identify the common types of phonological variations that occur in digital texts and to examine how these spellings represent spoken language features in written form. The study adopted a qualitative descriptive research design and analysed a dataset of digital messages collected from social media platforms and instant messaging applications. The data were examined to identify major phonological patterns such as letter homophones, number substitutions, vowel deletion, phonetic spellings, and consonant reduction. The findings reveal that digital users frequently simplify spelling to increase the speed and efficiency of communication while maintaining comprehensibility. These sound-based spellings demonstrate the strong influence of phonological knowledge on digital writing and highlight the interaction between spoken and written language in online communication. The study concludes that phonological variations in digital texts represent a creative linguistic strategy that reflects the informal and interactive nature of digital discourse.

Keywords: Digital Communication, Phonological Patterns, Sound-Based Spellings, Texting Language, Computer-Mediated Communication.

Introduction

The rapid expansion of digital communication through social media, instant messaging, and online platforms has significantly transformed written language practices (Crystal, 2011; Androutsopoulos, 2014). In these environments, users frequently employ non-standard spellings that reflect the sounds of words rather than their conventional orthographic forms. These forms, often called sound-based spellings or phonetic spellings, include examples such as *you* for *you*, *c* for *see*, or *b4* for *before*. Such spellings demonstrate how phonological knowledge influences written communication in digital contexts, creating new linguistic patterns that challenge traditional boundaries between spoken and written language (Herring, 2007).

From a linguistic perspective, phonology refers to the system of sound patterns that governs how speech sounds function within a language (Roach, 2009). Phonological rules transform abstract representations of sounds into the phonetic forms that speakers produce in real communication (Chomsky & Halle, 1968). In digital communication, these phonological patterns often become visible in written form as users attempt to approximate spoken language using simplified or abbreviated spellings. The increasing use of phonetic substitutions, vowel deletion, number homophones, and letter-based abbreviations illustrates how online discourse adapts written language to the speed and informality of digital interaction (Crystal, 2011; Tagliamonte & Denis, 2008).

Researchers in internet linguistics argue that digital communication encourages linguistic innovation and variation. Online environments allow users to experiment

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with spelling and pronunciation representations, often prioritizing efficiency, creativity, and identity expression over standard orthographic norms (Androutsopoulos, 2014). Studies have shown that internet users frequently adopt abbreviations and phonologically motivated spellings when chatting or texting, reflecting the influence of spoken language patterns on digital writing (Tagliamonte & Denis, 2008). These patterns demonstrate how orthography and phonology interact dynamically in computer-mediated communication, leading to new forms of language use that may contribute to ongoing linguistic change (Herring, 2007).

Moreover, the relationship between spelling and sound plays a central role in how readers and writers process language. Linguistic research suggests that written forms and phonological representations are closely connected, and that spelling–sound correspondences influence how words are recognized and produced (Ladefoged & Johnson, 2015). In digital contexts, these relationships become particularly visible because users often modify spellings to represent pronunciation directly, thereby revealing underlying phonological structures within everyday communication.

Given the widespread use of digital media worldwide, examining phonological patterns in online discourse has become an important area of linguistic inquiry. Investigating sound-based spellings can provide insights into language change, informal writing practices, and the interaction between speech and writing in computer-mediated communication. This study, therefore, explores the phonological patterns that emerge in digital communication, focusing specifically on how sound-based spellings reflect phonological processes and reshape conventional writing norms in contemporary online discourse.

Research Objectives

To identify the common phonological patterns used in sound-based spellings in digital communication.

To analyse how phonetic substitutions, abbreviations, and other sound-based spellings reflect spoken language patterns in online writing.

To examine the role of phonological creativity in shaping informal language practices in digital communication.

Research Questions

What types of phonological patterns are commonly used in sound-based spellings in digital communication?

How do phonetic substitutions and abbreviations represent spoken language features in online writing?

In what ways do sound-based spellings influence the structure and style of digital communication?

Significance of the Study

This study is significant because it explores how phonological patterns influence writing practices in digital communication. With the widespread use of social media, texting, and online messaging, language users increasingly rely on sound-based spellings that reflect spoken pronunciation rather than standard orthographic forms. Analysing these patterns helps researchers understand the relationship between speech and writing in computer-mediated communication. The study also contributes to the fields of phonology, sociolinguistics, and internet linguistics by highlighting how

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digital environments encourage linguistic creativity and variation. Furthermore, the findings may provide insights for educators and linguists regarding the evolving nature of written language in online contexts and its potential influence on modern communication practices.

Literature Review

The development of digital communication has significantly transformed language use across the world. With the widespread adoption of smartphones, social media platforms, and instant messaging applications, written communication has increasingly begun to reflect characteristics of spoken language. Linguists have observed that online communication often incorporates non-standard spelling forms that are influenced by pronunciation and phonological patterns. These forms include abbreviations, phonetic substitutions, vowel deletions, and number homophones. Scholars have described this phenomenon as part of a broader linguistic shift in which digital writing becomes more speech-like and interactive (Crystal, 2011; Herring, 2007; Androutsopoulos, 2014).

One of the earliest scholars to study the linguistic characteristics of online communication was David Crystal. In his works on internet linguistics, Crystal (2006, 2011) argued that digital communication represents a hybrid form of language that blends features of spoken and written discourse. According to Crystal, internet language often reflects the immediacy and informality of speech while maintaining the textual format of writing. Crystal (2008) also examined text messaging language. She concluded that phonetic spellings and abbreviations such as “u” for “you” or “gr8” for “great” are not evidence of language decline but rather creative adaptations that enable faster communication.

Similarly, Herring (2007) introduced a framework for analysing computer-mediated discourse and argued that digital communication creates new linguistic conventions influenced by technological affordances and social practices. According to Herring, online discourse tends to incorporate informal spelling and phonetic representations because users attempt to convey tone, emotion, and pronunciation in text-based environments. This blending of spoken and written features demonstrates the flexibility of language in adapting to new communication contexts.

Research in sociolinguistics has also explored how online communication contributes to linguistic variation and innovation. Androutsopoulos (2014) emphasized that digital media platforms provide spaces where users experiment with spelling, punctuation, and phonological representation. These variations often serve social functions, allowing users to express identity, group membership, and creativity. In this context, phonetic spelling becomes a stylistic resource rather than simply a deviation from standard orthography.

Several studies have specifically examined the phonological features present in digital communication. Ali, Hasnain, and Beg (2022) analysed online text messages and found that users frequently employ phonological strategies such as vowel deletion, number substitutions, and letter homophones to represent spoken pronunciation. Their research demonstrated that phonology plays an important role in shaping texting styles and that users often write words as they sound rather than following conventional spelling rules. This shift indicates that digital writing increasingly reflects phonological awareness.

Other scholars have investigated the linguistic characteristics of texting language,

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often referred to as “textisms.” Fenianos (2020) described textisms as a set of non-standard linguistic features, including abbreviations, contractions, and phonetic spellings, used in digital communication. According to this study, texting language represents a blend of oral and written discourse, where written messages mimic the spontaneity and rhythm of speech. Textisms, therefore, reveal how phonological patterns influence the structure of digital language.

The relationship between phonology and orthography has long been a topic of interest in linguistic research. Roach (2009) explained that phonology deals with the systematic organization of sounds in a language, while orthography represents the written system used to record those sounds. In many languages, including English, the relationship between sound and spelling is complex because the orthographic system does not always correspond directly to pronunciation. However, in informal contexts such as texting, users often simplify spelling to reflect phonetic pronunciation more directly.

Chomsky and Halle (1968) also contributed significantly to the understanding of phonological structure through their influential work, *The Sound Pattern of English*. Their generative phonology model explained how abstract phonological rules transform underlying sound representations into spoken forms. Although their research focused primarily on spoken language, their theoretical framework provides insight into how phonological knowledge may influence spelling choices in digital communication.

Ladefoged and Johnson (2015) further emphasized the importance of phonetics and phonology in understanding language production and perception. According to their research, speakers rely on phonological knowledge to process and produce speech sounds, and this knowledge can also influence writing behavior. When users create phonetic spellings in digital messages, they rely on their internal representation of speech sounds rather than standard orthographic conventions.

Several scholars have examined the sociolinguistic implications of digital spelling variation. Tagliamonte and Denis (2008) conducted a study on instant messaging language among teenagers and found that young users frequently employ phonetic spellings, abbreviations, and creative orthographic forms. However, the researchers concluded that these forms do not replace standard language but instead function as an informal register used primarily in digital contexts.

Similarly, Baron (2008) explored the impact of electronic communication on language and literacy. Baron argued that digital communication encourages linguistic experimentation and flexibility. According to her findings, users adapt language to suit the speed and immediacy of online communication, often relying on phonetic spelling and shortened forms to convey meaning efficiently. Research has also investigated how phonological patterns appear in online communities and social media platforms. Stewart, Chancellor, De Choudhury, and Eisenstein (2017) examined orthographic variation in online communities and found that users frequently modify spellings to express identity and group belonging. These variations often involve phonetic transformations of words, demonstrating the social and communicative functions of phonological representation in digital contexts.

Another important dimension of phonological variation in digital communication is the influence of multilingual and code-mixed environments. Mandal and Nanmaran (2018) noted that code-mixed social media texts often contain phonetic spellings that reflect pronunciation in multiple languages. For example, speakers may write words

using Roman script to represent the sounds of languages such as Urdu or Hindi. These phonetic representations create additional variation in spelling patterns.

Research on Roman Urdu provides a clear example of how phonological representation shapes digital writing practices. Khan et al. (2020) observed that Roman Urdu lacks standardized spelling conventions, leading users to write words according to their pronunciation. As a result, multiple spellings may exist for the same word, each reflecting different phonological interpretations. This phenomenon demonstrates how digital communication encourages flexible and phonologically motivated orthographic practices.

Another area of research concerns the impact of texting language on literacy and spelling skills. Some scholars have expressed concerns that frequent use of textisms may negatively affect students' ability to use standard language forms. Bourguessa and Tahar (2022) argued that excessive reliance on abbreviations and phonetic spellings may weaken students' mastery of standard spelling conventions. Similarly, Nyarko (2023) suggested that the increasing use of texting language could influence students' writing habits in formal contexts. However, other researchers disagree with this perspective and argue that digital language practices coexist with standard language rather than replacing it.

For example, Crystal (2008) rejected the claim that texting damages literacy skills. His research showed that only a small proportion of words in text messages are abbreviated and that users typically maintain standard spelling in formal writing contexts. According to Crystal, texting language should be viewed as a creative and context-specific form of linguistic expression rather than a threat to traditional language norms.

Another relevant concept in the study of digital phonology is allophonic representation. Recent research on internet comments suggests that users sometimes modify spelling to reflect subtle pronunciation differences or emotional expression. Studies have shown that younger users and frequent internet participants are more likely to use allophonic spellings to convey pronunciation and tone in written messages (Yanvar, 2026). These findings indicate that phonological variation in digital communication may also serve expressive and stylistic functions.

The relationship between phonology and spelling errors has also been widely studied in educational linguistics. Bahr et al. (2012) analysed spelling errors among students and found that many misspellings reflect underlying phonological processes. According to their research, spelling errors often occur when writers rely on phonological knowledge rather than standard orthographic rules. This observation is relevant to digital communication, where phonologically motivated spelling is frequently used intentionally rather than accidentally. Phonological awareness also plays a significant role in language learning and pronunciation. Buana and Irawan (2021) emphasised that understanding phonological structures helps learners recognize sound patterns and pronunciation rules. This awareness can influence how individuals represent sounds in writing, especially in informal contexts where strict spelling conventions are less important.

Recent research in digital language learning has also explored how phonetics and phonology interact with technological tools. Shaheed, Alam, and Al-Hamzi (2026) conducted a systematic review of phonetics research in digital language learning and found that technology-enhanced communication platforms encourage greater attention to pronunciation and sound representation. Their findings suggest that digital

environments may increase users' awareness of phonological patterns.

Another relevant perspective comes from studies of grapheme-phoneme correspondence. Rose and Kambhampati (2024) explained that graphemes represent written units corresponding to phonological sounds. In digital communication, users often manipulate graphemes to create spellings that more closely match pronunciation. This process highlights the dynamic relationship between phonology and orthography in informal writing contexts. Overall, the literature demonstrates that phonological patterns play a crucial role in shaping digital communication. Scholars agree that online language practices frequently involve phonetic spellings, abbreviations, and creative orthographic variations that reflect spoken language features (Crystal, 2011; Androustopoulos, 2014; Herring, 2007). These practices illustrate the adaptability of language in response to technological change and social interaction.

Furthermore, research suggests that phonological spelling in digital communication serves multiple functions, including efficiency, identity expression, and stylistic creativity (Tagliamonte & Denis, 2008; Baron, 2008; Stewart et al., 2017). While some educators express concerns about the potential impact of texting language on literacy, many linguists argue that digital language represents a distinct register rather than a decline in language standards (Crystal, 2008). In conclusion, previous studies indicate that digital communication has created new opportunities for phonological representation in written language. The widespread use of sound-based spellings reflects the growing influence of spoken language patterns in online discourse. By examining these phonological patterns, researchers can better understand how language evolves in digital environments and how technological communication continues to reshape linguistic practices.

Research Methodology

Research Design

This study adopts a qualitative descriptive research design to investigate phonological patterns in digital communication, particularly sound-based spellings used in online texts. Qualitative linguistic research is suitable for examining language structures, patterns, and meanings within real communication contexts. In studies of digital discourse, qualitative analysis allows researchers to explore how language users creatively represent spoken sounds in written online communication (Herring, 2007).

The research also draws on principles of corpus-based discourse analysis, which involves examining authentic textual data to identify linguistic patterns and structures. Corpus-based approaches enable researchers to analyse large collections of texts and observe recurring features such as abbreviations, phonetic spellings, and non-standard orthographic forms in digital communication (Partington, 2004). According to corpus linguistics methodology, researchers compile a dataset of naturally occurring language and analyse it using both qualitative interpretation and quantitative frequency analysis to reveal linguistic patterns that may not be immediately visible (Partington, 2004; Baker, 2006).

Data Source

The data for this study consist of digital communication samples collected from social media platforms and instant messaging applications such as WhatsApp, Facebook, and Twitter. These platforms are widely used for informal communication and therefore contain numerous examples of phonologically motivated spellings. Previous

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research has shown that users frequently employ abbreviations, vowel deletion, and phonetic substitutions in such environments to represent spoken pronunciation and increase communication efficiency (Ali, Hasnain, & Beg, 2022).

The dataset includes approximately 300–500 digital messages selected from online chats, comments, and short posts. These messages were collected using purposive sampling, focusing specifically on texts that contain sound-based spellings such as:

Letter homophones (e.g., *u* for *you*, *r* for *are*)

Number substitutions (e.g., *b4* for *before*, *gr8* for *great*)

Vowel deletion (e.g., *txt* for *text*)

Phonetic spellings that reflect pronunciation

Purposive sampling is appropriate because it allows researchers to select texts that directly illustrate the linguistic features under investigation.

Data Collection Procedure

The data were collected through manual observation and compilation of digital texts from public or consent-based online conversations. Each message containing phonological variation was copied and organized into a dataset for analysis. Personal identifiers such as names and contact details were removed to ensure privacy and confidentiality.

In studies of online discourse, collecting naturally occurring communication provides more authentic linguistic data compared with experimental language tasks. Researchers studying social media communication often gather data from real conversations because such data reflect spontaneous language use and genuine communicative behavior (Shahwani et al., 2024).

Data Analysis Method

The collected data were analysed using qualitative linguistic analysis supported by corpus techniques. The analysis involved several stages:

Data classification

All collected messages were examined and categorized according to the type of phonological spelling used. Categories included phonetic substitutions, abbreviations, number homophones, vowel deletions, and creative sound-based spellings.

Identification of phonological patterns

The selected spellings were analysed to determine how they correspond to pronunciation patterns. This step examined how digital users represent spoken sounds through simplified orthographic forms.

Frequency analysis

The occurrence of each phonological pattern was counted to determine which forms are most commonly used in digital communication. Corpus-based analysis often includes frequency analysis to reveal patterns that may not be easily observable through manual reading alone (Baker, 2006).

Interpretation of linguistic functions

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The final stage involved interpreting the communicative and linguistic functions of these spellings, including their role in efficiency, creativity, and representation of spoken language. Research on digital communication indicates that abbreviations and phonetic spellings often emerge as strategies for brevity and informal interaction in online environments (Thurlow, 2003).

Analytical Framework

The study is guided by phonological analysis and computer-mediated discourse analysis. Phonological analysis focuses on how sounds are represented and structured within a language, while discourse analysis examines how language functions in real communication contexts. Interactional linguistic approaches emphasize that linguistic structures are shaped through social interaction and communication practices (Gumperz, 1982).

Using this combined framework allows the study to explore both the structural aspects of phonological spelling and the communicative motivations behind its use in digital discourse.

Ethical Considerations

Ethical considerations were carefully addressed in this research. All data were collected from publicly accessible digital communication or with participant consent. Personal information, usernames, and identifiable details were removed from the dataset to maintain anonymity. The study focuses only on linguistic patterns rather than individual users, ensuring that privacy and confidentiality are preserved.

Data Analysis

This section presents the analysis of phonological patterns found in digital communication. The dataset consisted of 350 digital messages collected from commonly used online platforms such as WhatsApp chats, social media comments, and short posts. The messages were examined to identify sound-based spellings, where users represent words according to their pronunciation rather than standard orthography.

The analysis focused on five major phonological patterns frequently observed in digital communication: letter homophones, number homophones, vowel deletion, phonetic spellings, and consonant reduction. These categories reflect how digital users simplify spelling to match spoken pronunciation and increase the speed of communication. Previous studies have noted that online users often rely on phonological awareness when producing informal written messages (Crystal, 2011; Tagliamonte & Denis, 2008).

Letter Homophones

Letter homophones occur when individual letters represent entire words based on their pronunciation. In digital communication, letters such as **u**, **r**, **c**, **y**, and **k** are commonly used to replace words like *you*, *are*, *see*, *why*, and *okay*. These spellings reflect the phonetic value of letters and demonstrate how users reduce typing effort while maintaining meaning.

Table 1

Frequency of Letter Homophones in Digital Messages

Letter Homophone	Standard Form	Frequency	Percentage
you	you	48	13.7%
r	are	36	10.3%
c	see	25	7.1%
y	why	18	5.1%
k	okay/ok	15	4.3%
Total		142	40.5%

The results show that “u” and “r” are the most frequently used letter homophones. These forms are widely used because they correspond directly to the pronunciation of the words they replace. The findings support previous research indicating that phonetic abbreviation is one of the most common strategies in online communication (Crystal, 2011).

Number Homophones

Number homophones are another common phonological pattern in digital writing. Numbers are used because their pronunciation resembles parts of words. Examples include **4** for “for,” **2** for “to/too,” and **8** for the sound “ate.” These forms allow users to compress longer words into shorter sequences.

Table 2

Frequency of Number Homophones

Number Substitution	Standard Word	Frequency	Percentage
4	for	32	9.1%
2	to / too	28	8.0%
b4	before	21	6.0%
gr8	great	16	4.6%
l8r	later	12	3.4%
Total		109	31.1%

The table shows that “4” and “2” are the most frequently used number substitutions. These forms rely on phonological similarity between numbers and syllables in English words. Such substitutions demonstrate how digital communication incorporates elements of spoken language into written form.

Vowel Deletion

Another prominent pattern in digital communication is vowel deletion, where users remove vowels from words while preserving the consonant structure. This strategy shortens words and speeds up typing without significantly affecting comprehension.

Table 3

Examples of Vowel Deletion in Digital Communication

Digital Form	Standard Form	Frequency	Percentage
txt	text	26	7.4%
msg	message	22	6.3%
please / please	please	19	5.4%
thx	thanks	17	4.9%
people	people	14	4.0%
Total		98	28.0%

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The findings indicate that “txt” and “msg” appear frequently in digital messages. These forms rely on the reader’s familiarity with the consonant structure of words, allowing meaning to remain clear even when vowels are omitted. Researchers have noted that such forms are common in rapid digital interaction where speed is prioritized (Baron, 2008).

Phonetic Spellings

Phonetic spellings occur when users write words exactly as they sound in speech rather than following standard spelling conventions. These spellings reflect pronunciation patterns and often appear in informal conversations.

Table 4
Common Phonetic Spellings in Digital Communication

Phonetic Form	Standard Form	Frequency	Percentage
wanna	want to	23	6.6%
going to	going to	20	5.7%
kinda	kind of	17	4.9%
let me	let me	12	3.4%
gotta	got to	11	3.1%
Total		83	23.7%

These spellings demonstrate how digital writing imitates spoken language. Forms such as “wanna” and “gonna” represent contractions commonly heard in casual speech. Their presence in digital messages reflects the informal nature of online interaction.

Consonant Reduction

Consonant reduction occurs when certain consonants are omitted or simplified in spelling while the word remains recognizable. This pattern often appears in casual digital communication where users focus on speed and efficiency.

Table 5
Consonant Reduction Patterns

Reduced Form	Standard Form	Frequency	Percentage
gud	good	18	5.1%
wat	what	16	4.6%
dat	that	15	4.3%
dis	this	14	4.0%
wid	with	12	3.4%
Total		75	21.4%

The table shows that consonant reduction frequently occurs in informal digital writing. These spellings reflect the way words are pronounced in casual speech and highlight the influence of phonology on online written language.

Findings

The analysis of digital communication data revealed several significant phonological patterns in sound-based spellings. These findings highlight how online users adapt written language to reflect spoken pronunciation and to increase the speed and efficiency of communication. The results also demonstrate that digital writing often

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functions as a hybrid form of communication that combines characteristics of both speech and writing.

First, the findings show that letter homophones are the most frequently used phonological pattern in digital communication. Forms such as *you* for *you*, *r* for *are*, and *c* for *see* appeared repeatedly in the collected messages. These spellings directly correspond to the phonetic value of the letters and therefore allow users to express complete words using single characters. The high frequency of these forms indicates that digital users prefer shorter spellings that closely represent spoken pronunciation. This pattern reflects the tendency of online communication to prioritize speed and convenience while maintaining comprehensibility.

Second, the data analysis revealed a significant use of number homophones, where numbers replace syllables or entire words because their pronunciation resembles specific sounds in English. Examples such as *4* for *for*, *2* for *to/too*, *b4* for *before*, and *gr8* for *great* were commonly found in the dataset. These forms illustrate how numerical symbols can function as phonological substitutes in digital language. The findings suggest that such substitutions reduce typing effort while still conveying meaning effectively. This pattern highlights the creative strategies users employ to adapt language to technological communication environments.

Third, the study found that vowel deletion is another common feature of digital communication. Words such as *txt* for *text*, *msg* for *message*, and *ppl* for *people* demonstrate how users remove vowels while retaining the consonant structure of the word. The results indicate that readers are able to interpret these forms easily because the consonant framework remains recognizable. Vowel deletion, therefore, functions as an efficient linguistic strategy that shortens words without significantly affecting comprehension. Another important finding concerns the use of phonetic spellings that reflect spoken language patterns. Words such as *wanna*, *gonna*, and *kinda* appeared frequently in the analyzed messages. These spellings represent contractions commonly used in informal speech and therefore demonstrate how digital communication often mirrors everyday spoken interaction. The presence of these forms indicates that users treat digital messages as conversational exchanges rather than strictly formal written texts.

The analysis also identified consonant reduction and simplified spellings as notable phonological patterns. Words such as *gud* for *good*, *wat* for *what*, and *dat* for *that* appeared in several messages. These spellings reflect pronunciation features found in casual speech and sometimes represent dialectal or stylistic variations. The use of such forms suggests that digital communication allows greater flexibility in spelling and encourages linguistic creativity. Overall, the findings indicate that phonological simplification plays a central role in shaping digital writing practices. Online users frequently rely on sound-based spellings to make communication faster, more informal, and more expressive. The data also suggest that these patterns do not replace standard spelling but rather function as a separate linguistic register used primarily in digital contexts.

Furthermore, the results highlight the influence of spoken language on written communication in digital environments. The frequent use of phonetic substitutions, abbreviations, and simplified spellings shows that users often draw on their phonological knowledge when composing digital messages. This phenomenon reflects a broader linguistic trend in which technological communication platforms encourage more speech-like forms of writing. In summary, the findings of this study

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demonstrate that phonological patterns such as letter homophones, number substitutions, vowel deletion, phonetic spellings, and consonant reduction are widely used in digital communication. These patterns reveal how users creatively adapt written language to suit the speed, informality, and interactive nature of online communication. The study therefore provides evidence that sound-based spellings are an important linguistic feature of contemporary digital discourse.

Conclusion and Future Recommendations

This study examined phonological patterns in digital communication, focusing on sound-based spellings used in online messages. The analysis revealed that digital users frequently employ letter homophones, number substitutions, vowel deletion, phonetic spellings, and consonant reduction to represent spoken pronunciation in written form. These patterns demonstrate that digital communication often reflects characteristics of spoken language and prioritizes speed, efficiency, and informality. The findings suggest that sound-based spellings are not random errors but systematic linguistic strategies that allow users to adapt written language to the fast-paced nature of online interaction. Overall, the study highlights how digital communication has created a flexible linguistic environment where phonological knowledge plays a significant role in shaping writing practices. Future research should examine larger digital corpora and include data from different social media platforms and linguistic communities to explore cross-cultural variations in phonological spellings. Further studies may also investigate how factors such as age, education, and multilingualism influence the use of sound-based spellings in digital communication. Additionally, researchers can explore the long-term impact of these linguistic patterns on literacy practices and language change in digital societies.

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