

Detecting Emotional Pressure by decoding social interactions using NLP models.

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Abstract—This paper explores the application of Natural Language Processing (NLP) models to decode emotional pressure in social interactions. Leveraging advanced language models, the study delves into the nuanced aspects of communication, aiming to identify and understand emotional pressure signals within textual data. The research methodology involves training models on diverse datasets to recognize patterns indicative of emotional pressure. The findings contribute to a deeper comprehension of emotional dynamics in social discourse, offering insights that can inform the development of more empathetic and context-aware NLP applications. Decoding Emotional Pressure in Social Interactions via NLP Models” constitutes a groundbreaking study at the intersection of natural language processing (NLP) and emotional intelligence. This paper delves into the intricate landscape of social communication, employing advanced NLP models to decipher emotional pressure signals embedded in textual data. The research methodology involves the meticulous training of models on diverse datasets to discern patterns indicative of emotional pressure, thus contributing to a nuanced understanding of emotional dynamics within social discourse. The abstract opens with an exploration of the paper’s overarching goal – unravelling emotional pressure in social interactions through the application of NLP models. The study recognizes the pivotal role of understanding and decoding emotional undertones in human communication for the creation of empathetic and responsive artificial intelligence systems.

Index Terms—

I. INTRODUCTION

”Decoding Emotional Pressure in Social Interactions via NLP Models” represents a significant exploration in natural language processing (NLP), focusing on unraveling the complexities of emotional pressure within social interactions. Understanding and decoding the emotional undertones in human communication is crucial for creating empathetic and

responsive artificial intelligence systems. This research endeavors to leverage NLP models to discern emotional pressure cues in social discourse, contributing to the development of emotionally intelligent conversational agents and enhancing human-computer interactions. The acceleration of artificial intelligence (AI) and natural language processing (NLP) has catapulted us into an era where machines demonstrate an unparalleled proficiency in comprehending and deciphering human language. This transformative journey forms the backdrop against which the paper, ”Decoding Emotional Pressure in Social Interactions via NLP Models,” emerges as a substantial and groundbreaking contribution. It signifies a pivotal moment in the convergence of technology and human emotion, delving into the intricate dynamics of social interactions with the intent to unveil the nuanced threads of emotional pressure intricately woven within the fabric of communication. In our contemporary landscape, the imperative to understand and decode the subtle nuances of emotion in human communication has become increasingly pronounced. This urgency stems from our navigation through a landscape that is progressively populated by intelligent machines. The integration of AI technologies into various facets of our lives underscores the demand for systems that not only comprehend language on a semantic level but also grasp the emotional undertones inherent in human expression. It is within this context that our research, firmly rooted in the domain of NLP, embarks on a mission to decode the elusive cues of emotional pressure—a facet often overlooked in the complex interplay between human emotions and artificial intelligence. As we embark on the ongoing quest to impart machines with the ability to comprehend and respond to human emotions, the fusion of NLP models with the exploration of emotional pressure in social interactions unfolds as a promising avenue. Far beyond being a mere academic pursuit,

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this research responds pragmatically to the burgeoning demand for AI applications capable of navigating the intricate tapestry of human emotion with finesse. The synthesis of linguistic analysis and emotional intelligence holds the transformative potential to reshape how machines engage with and understand human users, fostering a more empathetic and responsive interaction paradigm. In the era of digital transformation, where social interactions span across diverse digital platforms, a profound challenge surfaces in deciphering the undercurrents of emotional pressure embedded within textual data. Digital exchanges on social media, messaging applications, and various online forums have swiftly become the new norm. This shift necessitates the development of AI models equipped with the discernment to perceive the emotional tenor inherent in these digital interactions. The transition from traditional face-to-face communication to digital exchanges accentuates the importance of furnishing AI models with the capability to understand the emotional nuances embedded in language. Positioned at the intersection of technology and psychology, this paper endeavours to unravel the emotional fabric underpinning contemporary social conversations. The intricate interplay between technology and emotion unfolds as a central theme in this exploration. As we delve into the complexities of emotional pressure within social interactions, the paper seeks to contribute not only to the theoretical understanding but also to the practical application of these insights. The subsequent sections will provide a detailed exposition of the research methodology, shedding light on the meticulous training of NLP models on diverse datasets. Through this comprehensive training, the models are poised to recognize patterns indicative of emotional pressure, laying a robust foundation for a nuanced understanding of the emotional dynamics within textual data. These foundational elements set the stage for an in-depth analysis of the findings, discussion of their implications, and their potential to shape the landscape of AI applications with heightened emotional intelligence. The exploration into decoding emotional pressure through NLP models is a multidimensional endeavour that demands a holistic approach, seamlessly integrating both technological and psychological dimensions. As we delve into the intricate realm of human emotion embedded in textual data, this study leverages advancements in language models to scrutinise the nuanced aspects of communication. Moving beyond the superficial understanding of words, the research aims to discern the subtle emotive cues that intricately define human interaction. This interdisciplinary journey goes beyond linguistic analysis, extending to incorporate sentiment modelling and psychological insights, providing a comprehensive framework for unravelling the intricacies of emotional pressure. The research methodology employed in this study represents a meticulous process focused on training NLP models on diverse datasets. These datasets, thoughtfully curated to reflect various social contexts, encapsulate the multifaceted nature of human communication. Through exhaustive training, the models are systematically primed to recognize patterns indicative of emotional pressure, laying a robust foundation for a nuanced understanding of the

emotional dynamics within textual data. This methodological rigour is crucial, enhancing the models' capacity to decode emotional pressure across diverse social contexts, ensuring not only the validity but also the applicability of the findings. The potential contributions of this research to the burgeoning field of NLP and artificial intelligence are profound. By delving into the intricate interplay between language and emotion, the study enriches our understanding of emotional dynamics, moving beyond theoretical realms into practical implications. The identified patterns and insights advance not only the theoretical understanding of emotional dynamics but also hold significant practical implications for the development of more empathetic and context-aware NLP applications. In essence, this research lays the foundation for the creation of AI systems armed with a heightened awareness of emotional nuances. Such advancements empower these systems to navigate social interactions with unprecedented sensitivity, marking a paradigm shift in the way machines engage with human emotions. The applications of these advancements extend well beyond the theoretical realm, permeating practical domains such as chatbots, virtual assistants, educational platforms, and mental health support systems. The act of decoding emotional pressure becomes a transformative force in the ongoing discourse on human-computer interactions, fundamentally influencing how we conceptualise and integrate emotional intelligence into the very fabric of AI-driven conversational engagements. As we set the stage for the exploration of emotional pressure within social interactions via NLP models, the introduction provides a comprehensive overview of the research's context, scope, and significance. This preamble serves as a prelude to the subsequent sections of the paper, where the intricate details of the methodology, results, and discussions will be unveiled. These subsequent sections promise to further unravel the layers of emotional pressure in social discourse, contributing substantively to the evolution of AI systems endowed with heightened emotional intelligence. The journey from theoretical foundations to practical applications is one that reflects the transformative potential of decoding emotional pressure in the intricate dance between language, emotion, and artificial intelligence.

II. LITERATURE REVIEW

III. METHODOLOGY

2. The paper titled "Ensemble of Gated Recurrent Unit and Convolutional Neural Network for Sarcasm Detection in Bangla" introduces a machine learning model for automated detection of fake news on the internet, addressing the challenge of information quality. Combining Natural Language Processing (NLP) techniques, the model utilizes both content-based and social features of news, surpassing traditional methods. Results demonstrate an average accuracy of 90.62

3. The paper "Evaluation of ChatGPT for NLP-based Mental Health Applications" investigates the effectiveness of ChatGPT, a large language model (LLM), in text-based mental health classification tasks. Focusing on stress, depression, and suicidality detection using labelled datasets, the study employs

a zero-shot classification approach and prompts the OpenAI ChatGPT API for evaluation. Achieving F1 scores of 0.73 for stress, 0.86 for depression, and 0.37 for suicidality, ChatGPT outperforms baseline models. While stress and depression detection align competitively with other models, suicidality detection, a more complex 5-class problem, yields a lower F1 score, possibly due to overlapping class boundaries. Acknowledging limitations, such as prompt settings and dataset size, the authors advocate for future work involving fine-tuning, diverse prompts, and larger datasets. The paper underscores the potential of LLMs like ChatGPT in mental health applications, with ongoing efforts to refine models for nuanced tasks, including exploring the performance of the GPT-4 model.

4. The "Helping Therapists with NLP-Annotated Recommendation" system is designed to support therapists in real-time during psychotherapy sessions. Utilizing a turn-level rating mechanism, the system predicts therapeutic outcomes by assessing the similarity between deep embeddings of a scoring inventory and the patient's current sentence. In response to the mental health practitioner shortage, worsened by COVID-19, the authors introduce SupervisorBot, an AI companion offering real-time feedback and treatment recommendations. Leveraging Working Alliance Inventory ratings, speaker diarization, and deep embeddings, the system incorporates an Embedded Topic Model for topic modelling and employs reinforcement learning (DDPG, TD3, BCQ) to refine recommendations. Empirical results on a psychotherapy dataset demonstrate efficacy across various psychiatric conditions. SupervisorBot, presented as a web-based system, ensures ethical data processing. This study introduces a proof of concept for a real-time recommendation system, integrating NLP, reinforcement learning, and topic modelling to aid therapists in psychotherapy sessions. Future work may expand system capabilities and explore ethical considerations in multi-participant interactions.

5. According to the paper title "Towards a sentiment-aware conversational agent" The advent of sentiment-aware conversational agents represents a significant stride in artificial intelligence (AI), elevating interactions by comprehending and responding to human emotions. Unlike traditional counterparts focusing on information retrieval, these agents utilize natural language processing (NLP) and sentiment analysis to discern emotional nuances in user input. Recognizing sentiments like joy or frustration, the agent tailors responses, enhancing empathy and providing personalised assistance. Training on diverse emotional expressions enables the agent to engage in natural conversations, with ongoing learning adapting to linguistic and cultural shifts. Applications range from customer service, addressing dissatisfaction proactively, to mental health support, offering interventions based on detected distress. Challenges include ethical considerations and privacy, requiring a delicate balance for widespread trust. In conclusion, sentiment-aware agents signify a transformative AI phase, understanding not only spoken words but also conveyed emotions, potentially reshaping human-computer interactions into a new era of emotionally intelligent AI systems.

6. The survey on "Deep Learning Techniques on Text Classification Using Natural Language Processing (NLP) In Social Healthcare Network: A Comprehensive Survey" explores the intersection of advanced AI and healthcare communication. Focusing on improving the understanding and categorization of textual data, it examines the application of deep learning in social healthcare. Deep learning, a subset of machine learning, unravels the complexities of healthcare discussions by delving into various methodologies and models for text classification. Natural Language Processing (NLP) is foundational, enabling effective comprehension and processing of human language. The survey emphasises NLP's pivotal role in bridging the gap between unstructured textual data and intelligent algorithms in social healthcare networks. It discusses deep learning applications in sentiment analysis, disease identification, and information extraction, addressing challenges such as interpretability, ethics, and handling sensitive patient information. The survey outlines the evolution of deep learning models in healthcare conversations and their potential impact on improving outcomes, facilitating early disease detection, and enhancing patient care through data-driven insights. Ultimately, it serves as a roadmap for integrating advanced AI technologies into healthcare communication for more effective and informed practices.

7. This study from the paper "Identification of emotion stress agents in Hindi and English sentences" explores the identification of emotion stress agents in Hindi and English sentences, a critical area in natural language processing (NLP) research. Utilising NLP techniques, the research develops models for recognizing stress-inducing elements in both languages, employing machine learning algorithms and linguistic features to analyse textual data. The study emphasises the significance of considering cultural and linguistic context in identifying stress agents, recognizing variations between Hindi and English speakers. The research envisions applications in mental health support, customer service, and sentiment analysis, enhancing conversational agents and customer support systems across diverse language groups. Acknowledging challenges like limited labelled datasets for Hindi stress identification, linguistic variations, and the subjective nature of stress perception, the study aims to address these for robust, generalizable models. In conclusion, this research pioneers the understanding of stress expression in multilingual settings, contributing insights into culturally aware and linguistically attuned NLP models, with practical applications in improving emotional intelligence in AI-driven systems across diverse languages and cultures.

8. "AmbiPun: Generating Humorous Puns with Ambiguous Context" is a groundbreaking exploration in natural language processing (NLP), focusing on the creation of witty puns within ambiguous contexts. The study leverages advanced NLP techniques to develop a model that excels in generating puns with double entendre and multiple interpretations. By intentionally introducing ambiguity, AmbiPun surprises users with unexpected wordplay, distinguishing it from traditional pun generation models reliant on clear linguistic contexts. The

research delves into the nuances of pun creation, highlighting the importance of context and linguistic ambiguity in eliciting laughter. AmbiPun manipulates ambiguous scenarios to generate puns exploiting various word or phrase meanings, adding cleverness to the humour. AmbiPun’s applications span entertainment, chatbots, and creative writing, offering a novel way to engage users in human-computer interactions. Challenges include balancing ambiguity and coherence in pun generation and aligning humour with user expectations. The research pioneers computational humour, opening avenues for entertaining AI systems that use linguistic ambiguity to evoke laughter and creativity. In conclusion, AmbiPun introduces a pioneering approach to NLP-based pun generation, pushing the boundaries of computational humour for more engaging and entertaining AI systems.

9. The paper “Emotion regulation in social interaction: Physiological and emotional responses associated with social inhibition” explains social inhibition, a personality trait marked by behavioural and interpersonal difficulties, has implications for emotion regulation, yet mechanisms remain unclear. Socially inhibited individuals often struggle in social situations, potentially due to emotion regulation challenges. Suppression, a common strategy in socially inhibited individuals, may lead to increased stress and negative outcomes. Limited research explores the physiological consequences of suppression in socially inhibited individuals. In contrast, frequent use of reappraisal, an adaptive emotion regulation strategy, is associated with positive emotional outcomes. However, the relation between social inhibition and reappraisal remains unexplored. This study addresses this gap, examining emotional and physiological responses in socially inhibited individuals during sadness induction and instructed emotion regulation, shedding light on the psychosomatic implications of emotion regulation in social inhibition.

A. Dataset

The dataset used for this analysis is sourced from the file `"/kaggle/input/emotions-dataset-for-nlp/train.txt"`. It contains textual descriptions labeled with corresponding emotions. The two main columns are “Description” and “Emotion.” Text pre-processing is a crucial step in natural language processing (NLP) that involves transforming raw text data into a format suitable for analysis or machine learning applications. The provided code implements a comprehensive pre-processing pipeline using the spaCy library in Python, focusing on tokenization, stop word removal, punctuation elimination, and lemmatization. Pre-Processing: Tokenization: Tokenization is the process of breaking down a text into individual words or tokens. The spaCy library is employed to tokenize the input text, creating a sequence of tokens that represent the words in the text. This step is fundamental for subsequent analysis, enabling the examination of text on a granular level. Stop Words and Punctuation Removal: Stop words are common words in a language, such as “the,” “is,” and “and,” which often contribute little to the overall meaning of a sentence. The code snippet iterates through the tokens generated by spaCy

and filters out both stop words and punctuation. This helps in focusing on the significant content of the text while discarding elements that may not be informative for the intended analysis.

Lemmatization: Lemmatization involves reducing words to their base or root form, aiding in standardization and reducing inflected forms to a common base. The lemmatized tokens are obtained using spaCy’s lemmatization capabilities, ensuring that words are represented in their simplest, canonical forms.

Joining Lemmatized Tokens: In the final step, the lemmatized tokens are joined back together into a cohesive text string. This results in a processed version of the original text where stop words and punctuation have been removed, and the remaining words have been lemmatized. The output is a cleaner, more standardized representation of the text, facilitating further analysis.

IV. PREPARE YOUR PAPER BEFORE STYLING

Before you begin to format your paper, first write and save the content as a separate text file. Complete all content and organizational editing before formatting. Please note sections IV-A–IV-E below for more information on proofreading, spelling and grammar.

Keep your text and graphic files separate until after the text has been formatted and styled. Do not number text heads— \LaTeX will do that for you.

A. Abbreviations and Acronyms

Define abbreviations and acronyms the first time they are used in the text, even after they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, ac, dc, and rms do not have to be defined. Do not use abbreviations in the title or heads unless they are unavoidable.

B. Units

- Use either SI (MKS) or CGS as primary units. (SI units are encouraged.) English units may be used as secondary units (in parentheses). An exception would be the use of English units as identifiers in trade, such as “3.5-inch disk drive”.
- Avoid combining SI and CGS units, such as current in amperes and magnetic field in oersteds. This often leads to confusion because equations do not balance dimensionally. If you must use mixed units, clearly state the units for each quantity that you use in an equation.
- Do not mix complete spellings and abbreviations of units: “Wb/m²” or “webers per square meter”, not “webers/m²”. Spell out units when they appear in text: “. . . a few henries”, not “. . . a few H”.
- Use a zero before decimal points: “0.25”, not “.25”. Use “cm³”, not “cc”).

C. Equations

Number equations consecutively. To make your equations more compact, you may use the solidus (/), the exp function, or appropriate exponents. Italicize Roman symbols for quantities and variables, but not Greek symbols. Use a

long dash rather than a hyphen for a minus sign. Punctuate equations with commas or periods when they are part of a sentence, as in:

$$a + b = \gamma \quad (1)$$

Be sure that the symbols in your equation have been defined before or immediately following the equation. Use “(1)”, not “Eq. (1)” or “equation (1)”, except at the beginning of a sentence: “Equation (1) is . . .”

D. L^AT_EX-Specific Advice

Please use “soft” (e.g., `\eqref{Eq}`) cross references instead of “hard” references (e.g., (1)). That will make it possible to combine sections, add equations, or change the order of figures or citations without having to go through the file line by line.

Please don’t use the `{eqnarray}` equation environment. Use `{align}` or `{IEEEeqnarray}` instead. The `{eqnarray}` environment leaves unsightly spaces around relation symbols.

Please note that the `{subequations}` environment in L^AT_EX will increment the main equation counter even when there are no equation numbers displayed. If you forget that, you might write an article in which the equation numbers skip from (17) to (20), causing the copy editors to wonder if you’ve discovered a new method of counting.

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Do not use `\nonumber` inside the `{array}` environment. It will not stop equation numbers inside `{array}` (there won’t be any anyway) and it might stop a wanted equation number in the surrounding equation.

E. Some Common Mistakes

- The word “data” is plural, not singular.
- The subscript for the permeability of vacuum μ_0 , and other common scientific constants, is zero with subscript formatting, not a lowercase letter “o”.
- In American English, commas, semicolons, periods, question and exclamation marks are located within quotation marks only when a
- A graph within a graph is an “inset”, not an “insert”. The word alternatively is preferred to the word “alternately” (unless you really mean something that alternates).
- Do not use the word “essentially” to mean “approximately” or “effectively”.

- In your paper title, if the words “that uses” can accurately replace the word “using”, capitalize the “u”; if not, keep using lower-cased.
- Be aware of the different meanings of the homophones “affect” and “effect”, “complement” and “compliment”, “discreet” and “discrete”, “principal” and “principle”.
- Do not confuse “imply” and “infer”.
- The prefix “non” is not a word; it should be joined to the word it modifies, usually without a hyphen.
- There is no period after the “et” in the Latin abbreviation “et al.”.
- The abbreviation “i.e.” means “that is”, and the abbreviation “e.g.” means “for example”.

An excellent style manual for science writers is [7].

F. Authors and Affiliations

The class file is designed for, but not limited to, six authors.

G. Machine Learning Model:

A machine learning model is a mathematical representation of a real-world process that is learned from data. It learns patterns and relationships within the data, enabling it to make predictions or decisions on new, unseen data. SGD Classifier: KNN CLASSIFIER: MULTI NB: MLP CLASSIFIER: RANDOM FOREST: SNM/SVC:

H. Figures and Tables

a) *Positioning Figures and Tables:* Place figures and tables at the top and bottom of columns. Avoid placing them in the middle of columns. Large figures and tables may span across both columns. Figure captions should be below the figures; table heads should appear above the tables. Insert figures and tables after they are cited in the text. Use the abbreviation “Fig. 1”, even at the beginning of a sentence.

TABLE I
TABLE TYPE STYLES

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^aSample of a Table footnote.



Fig. 1. Example of a figure caption.

Figure Labels: Use 8 point Times New Roman for Figure labels. Use words rather than symbols or abbreviations when writing Figure axis labels to avoid confusing the reader. As an

example, write the quantity “Magnetization”, or “Magnetization, M”, not just “M”. If including units in the label, present them within parentheses. Do not label axes only with units. In the example, write “Magnetization (A/m)” or “Magnetization {A[m(1)]}”, not just “A/m”. Do not label axes with a ratio of quantities and units. For example, write “Temperature (K)”, not “Temperature/K”.

ACKNOWLEDGMENT

The preferred spelling of the word “acknowledgment” in America is without an “e” after the “g”. Avoid the stilted expression “one of us (R. B. G.) thanks . . .”. Instead, try “R. B. G. thanks . . .”.

REFERENCES

Please number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2]. Refer simply to the reference number, as in [3]—do not use “Ref. [3]” or “reference [3]” except at the beginning of a sentence: “Reference [3] was the first . . .”

Number footnotes separately in superscripts. Place the actual footnote at the bottom of the column in which it was cited. Do not put footnotes in the abstract or reference list. Use letters for table footnotes.

Unless there are six authors or more give all authors’ names; do not use “et al.”. Papers that have not been published, even if they have been submitted for publication, should be cited as “unpublished” [4]. Papers that have been accepted for publication should be cited as “in press” [5]. Capitalize only the first word in a paper title, except for proper nouns and element symbols.

For papers published in translation journals, please give the English citation first, followed by the original foreign-language citation [6].

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