# VISVESVARAYA TECHNOLOGICAL UNIVERSITY



### BELAGAVI – 590018, Karnataka

### INTERNSHIP REPORT

ON

# "Sentiment Analysis of Lockdown During COVID-19 in USA" Submitted in partial fulfilment for the award of degree(18EC185)

### **BACHELOR OF ENGINEERING IN**

### **Electronics and Communication Engineering**

Submitted by:

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Conducted at Varcons Technologies Pvt Ltd



Department of Electronics and Communication Engineering Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)

Off International airport road, krishnadevarayaNagar, Bengaluru – 562157 **2022 – 2023** 

### Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified) Off International airport road, Krishnadevaraya Nagar, Bengaluru-562157

Department of Electronics and Communication Engineering



### **CERTIFICATE**

This is to certify that the Internship titled "Sentiment Analysis of Lockdown During COVID-19 in USA" carried out by Mr. Ashish Kumar, a bonafide student of SIR M Visvevaraya Institute of Technology, in partial fulfillment for the award of Bachelor of Engineering, in Electronics and communication Engineering under Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report.

Signature of Guide	Signature of HOD	Signature of Principal
	External Viva:	
Name of the Examiner		Signature with Date
1)		
2)		

### DECLARATION

I, **Ashish Kumar** final year student of Electronics and communication Engineering, Sir M. Visvesvaraya Institute Of Technology – 562157, declare that the Internship has been successfully completed, in "Varcons Technologies Private Limited". This report is submitted in partial fulfillment of the requirements for award of Bachelor Degree in Branch name, during the academic year 2023-2024

Date: 21/09/2023:

Place: Bangalore

USN: 1MV20EC028

NAME: Ashish Kumar

### OFFER LETTER PROVIDED BY THE COMPANY





Date: 11th August, 2023

Name: Ashish Kumar USN: 1MV20EC028

#### Dear Student,

We would like to congratulate you on being selected for the Machine Learning With Python (Research Based) Internship position with Varcons Technologies, effective Start Date 11<sup>th</sup> August, 2023, All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part-time job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of Machine Learning With Python (Research Based) through hands-on application of the knowledge you learn while you train with the senior developers. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!.

Sincerely,

Spoorthi H C

Director

VARCONS TECHNOLOGIES
213, 2<sup>st</sup> Floor,
18 M G Road, Ulsoor,
Bangalore-560001

### ACKNOWLEDGEMENT

This Internship is a result of accumulated guidance, direction and support of several important persons. We take this opportunity to express our gratitude to all who have helped us to complete the Internship.

We would like to thank our Head of Dept **Dr. VG SUPRIYA** Department of Electronics and communication Engineering, for providing us an opportunity to carry out Internship and for his valuable guidance and support.

We would like to thank all the faculty members of our department for the support extended during the course of Internship.

We would like to thank the non-teaching members of our dept, for helping us during the Internship.

Last but not the least, we would like to thank our parents and friends without whose constant help, the completion of Internship would have not been possible.

### **ASHISH KUMAR**

### 1MV20EC028

### **ABSTRACT**

In the digital age, a company's online presence is paramount to its success. A well-crafted corporate landing page can serve as the gateway to establishing trust, communicating value, and converting visitors into loyal customers. This abstract introduces a versatile and comprehensive Corporate Landing Page Template designed to meet the diverse needs of businesses across industries.

Our Corporate Landing Page Template offers a visually appealing, user-friendly, and responsive platform that combines aesthetic design with high functionality. Key features include:

This Corporate Landing Page Template is designed to cater to a wide range of industries, from startups seeking to establish their presence to established corporations aiming to modernize their digital footprint. It empowers businesses to create a compelling and effective online presence without the need for extensive coding or design skills.

By adopting this template, your company can confidently enter the digital arena, captivate your target audience, and drive measurable results. Your corporate landing page will become a powerful tool for enhancing brand awareness, generating leads, and ultimately achieving your business objectives. Welcome to the future of corporate online engagement.

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	CHAPTER 1 COMPANY PROFILE	
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### 1. COMPANY PROFILE

### A Brief History of Varcons Technologies

Varcons Technologies, was incorporated with a goal" To provide high quality and optimal Technological Solutions to business requirements of our clients". Every business is a different and has a unique business model and so are the technological requirements. They understand this and hence the solutions provided to these requirements are different as well. They focus on clients' requirements and provide them with tailor made technological solutions. They also understand that Reach of their Product to its targeted market or the automation of the existing process into e-client and simple process are the key features that our clients desire from Technological Solution they are looking for and these are the features that we focus on while designing the solutions for their clients.

Varcons Technologies is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever-increasing automation requirements, Sarvamoola Software Services. specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting clients' requirements.

Varcons Technologies, strive to be the front runner in creativity and innovation in software development through their well-researched expertise and establish it as an out of the box software development company in Bangalore, India. As a software development company, they translate this software development expertise into value for their customers through their professional solutions.

They understand that the best desired output can be achieved only by understanding the clients demand better. Varcons Technologies work with their clients and help them to define their exact solution requirement. Sometimes even they wonder that they have completely redefined their solution or new application requirement during the brainstorming session, and here they position themselves as an IT solutions consulting group comprising of high caliber consultants.

They believe that Technology when used properly can help any business to scale and achieve new heights of success. It helps Improve its efficiency, profitability, reliability; to put it in one sentence" Technology helps you to Delight your customers" and that is what we want to achieve.

	CHAPTER 2 AROUT THE COMPANY	
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# 2. ABOUT THE COMPANY

Varcons Technologies is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever-increasing automation requirements, Varcons Technologies specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting client's requirements. The organization where they have a right mix of professionals as a stakeholder to help us serve our clients with best of our capability and with at par industry standards. They have young, enthusiastic, passionate and creative Professionals to develop technological innovations in the field of Mobile technologies, Web applications as well as Business and Enterprise solution. Motto of our organization is to "Collaborate with our clients to provide them with best Technological solution hence creating Good Present and Better Future for our client which will bring a cascading a positive effect in their business shape as well". Providing a Complete suite of technical solutions is not just our tag line, it is Our Vision for Our Clients and for Us, we strive hard to achieve it.

### **Products of Company**

### **Android Apps**

It is the process by which new applications are created for devices running the Android operating system. Applications are usually developed in Java (and/or Kotlin; or other such option) programming language using the Android software development kit (SDK), but other development environments are also available, some such as Kotlin support the exact same Android APIs (and bytecode), while others such as Go have restricted API access.

The Android software development kit includes a comprehensive set of development tools. These include a debugger, libraries, a handset emulator based on QEMU, documentation, sample code, and tutorials. Currently supported development platforms include computers running Linux (any modern desktop Linux distribution), Mac OS X 10.5.8 or later, and Windows 7 or later. As of March 2015, the SDK is not available on Android itself, but software development is possible by using specialized Android applications.

### **Web Application**

It is a client–server computer program in which the client (including the user interface and client- side logic) runs in a web browser. Common web applications include web mail, online retail sales, online auctions, wikis, instant messaging services and many other functions. web applications use web documents written in a standard format such as HTML and JavaScript, which are supported by a variety of web browsers. Web applications can be considered as a specific variant of client–server software where the client software is downloaded to the client machine when visiting the relevant web page, using standard procedures such as HTTP. The Client web software updates may happen each time the web page is visited. During the session, the web browser interprets and displays the pages, and acts as the universal client for any web application. The use of web application frameworks can often reduce the number of errors in a program, both by making the code simpler, and by allowing one team to concentrate on the framework while another focuses on a specified use case. In applications which are exposed to constant hacking attempts on the Internet, security-related problems can be caused by errors in the program.

Frameworks can also promote the use of best practices such as GET after POST. There are some who view a web application as a two-tier architecture. This can be a "smart" client that performs all the work and queries a "dumb" server, or a "dumb" client that relies on a "smart" server. The client would handle the presentation tier, the server would have the database (storage tier), and the business logic (application tier) would be on one of them or on both. While this increases the scalability of the applications and separates the display and the database, it still doesn't allow for true specialization of layers, so most applications will outgrow this model. An emerging strategy for application software companies is to provide web access to software previously distributed as local applications. Depending on the type of application, it may require the development of an entirely different browser-based interface, or merely adapting an existing application to use different presentation technology. These programs allow the user to pay a monthly or yearly fee for use of a software application without having to install it on a local hard drive. A company which follows this strategy is known as an application service provider (ASP), and ASPs are currently receiving much attention in the software industry.

Security breaches on these kinds of applications are a major concern because it can involve both enterprise information and private customer data. Protecting these assets is an important part of any web application and there are some key operational areas that must be included in the development process. This includes processes for authentication, authorization, asset handling, input, and logging and auditing. Building security into the applications from the beginning can be more effective and less disruptive in the long run.

### Web design

It is encompassing many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design; interface design; authoring, including standardized code and proprietary software; user experience design; and search engine optimization. The term web design is normally used to describe the design process relating to the front-end (client side) design of a website including writing mark up. Web design partially overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of usability and if their role involves creating markup then they are also expected to be up to date with web accessibility guidelines. Web design partially overlaps web engineering in the broader scope of web development.

### Departments and services offered

Company Name plays an essential role as an institute, the level of education, development of student's skills is based on their trainers. If you do not have a good mentor then you may lag in many things from others and that is why we at Varcons Technologies gives you the facility of skilled employees so that you do not feel unsecured about the academics. Personality development and academic status are some of those things which lie on mentor's hands. If you are trained well then you can do well in your future and knowing its importance of Varcons Technologies always tries to give you the best.

They have a great team of skilled mentors who are always ready to direct their trainees in the best possible way they can and to ensure the skills of mentors we held many skill development programs as well so that each and every mentor can develop their own skills with the demands of the companies so that they can prepare a complete packaged trainee.

### Services provided by the Company

- Core Java and Advanced Java
- Web services and development
- Dot Net Framework
- Python
- Selenium Testing
- Conference / Event Management Service
- Academic Project Guidance
- On The Job Training
- Software Training

	CHAPTER 3	
	INTRODUCTION	
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# 3. INTRODUCTION

### **Introduction:**

The COVID-19 pandemic, caused by the novel coronavirus SARS-CoV-2, emerged as a global crisis in early 2020, presenting an unprecedented challenge to public health, economies, and social structures worldwide. In an effort to curb the spread of the virus, governments around the globe implemented a range of measures, including social distancing, mask mandates, and, in many cases, full-scale lockdowns. These measures profoundly impacted individuals' daily lives, altering routines, work patterns, and social interactions.

The United States, like many other countries, implemented stringent lockdown measures in response to the escalating pandemic. The lockdowns, while crucial for mitigating the spread of the virus, brought about a multitude of complex societal and emotional ramifications. This study aims to conduct a sentiment analysis to gain insights into the diverse range of public perceptions and emotional responses that emerged during the lockdown period in the USA.

### **Rationale for the Study**

Understanding the sentiment and emotional experiences of individuals during the lockdown is imperative for several reasons. Firstly, it offers a glimpse into the psychological impact of the pandemic, shedding light on how people coped with isolation, fear, and uncertainty. Secondly, it provides valuable data for policymakers to gauge the effectiveness of lockdown measures and to make informed decisions for future public health crises. Finally, it serves as a platform for researchers and mental health professionals to develop targeted interventions for those most affected by such crisis situations.

### **Objectives**

The primary objectives of this study are:

- a. To assess the sentiment and emotional responses expressed by individuals during the lockdown period in the USA.
- b. To identify key themes and topics that emerged in public discourse related to the lockdown.
- c. To explore any demographic or regional variations in sentiment and emotional responses.

### Methodology

This study employs natural language processing (NLP) techniques, specifically sentiment analysis, to analyze a diverse range of textual data, including social media posts, online forums, news articles, and public statements. Additionally, demographic information and geographic data will be utilized to identify potential variations in sentiment based on factors such as age, gender, location, and socio-economic status.

### Significance of the Study

The findings of this study hold significant implications for various stakeholders. They can inform public health strategies for future pandemics or similar crises, aid mental health professionals in tailoring support services, and provide valuable insights for policymakers to enhance response efforts. Furthermore, this study contributes to the growing body of knowledge surrounding the socio-psychological impact of global crises.

### Structure of the Study

This study is organized into several sections, including a review of relevant literature on sentiment analysis and previous studies related to the COVID-19 pandemic, a detailed methodology section outlining data collection and analysis procedures, presentation of findings, discussion of key themes and variations, and finally, conclusions and recommendations based on the study's outcomes.

In the subsequent sections, we will delve into the intricate tapestry of sentiments and emotions that emerged during the lockdown period in the USA, aiming to provide a comprehensive understanding of the human experience during this unprecedented global crisis.

	CHAPTER 4	
	SYSTEM ANALYSIS	
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# 4. SYSTEM ANALYSIS

A system analysis of the topic "Sentiment Analysis of Lockdown During COVID-19 in the USA" involves breaking down the various components and processes involved in conducting such a study. Here's a systematic breakdown:

### **Objectives and Scope:**

Objective: The primary objective is to assess the sentiment and emotional responses of individuals during the lockdown period in the USA.

Scope: The study focuses on analyzing textual data from various sources such as social media, online forums, news articles, and public statements. It also aims to identify demographic and regional variations in sentiment.

### **Data Collection:**

Sources: Data is collected from diverse textual sources including social media platforms (e.g., Twitter, Facebook), online forums (e.g., Reddit), news websites, and public statements (e.g., press releases, official announcements).

Sampling: The data sample should be representative of the population under study, taking into account factors such as age, gender, location, and socio-economic status.

Temporal Considerations: The data collection period should cover the duration of the lockdown, with specific timeframes defined for analysis.

Ethical Considerations: Ensure privacy and anonymity of individuals whose data is being analyzed. Adhere to ethical guidelines and legal requirements for data collection.

### **Data Preprocessing:**

Text Cleaning: Remove irrelevant characters, symbols, and special characters. Normalize text (e.g., converting to lowercase) for consistent analysis.

Tokenization: Break down text into individual words or tokens for analysis.

Stopword Removal: Eliminate common, non-informative words (e.g., "and", "the") that do not contribute to sentiment analysis.

Stemming or Lemmatization: Reduce words to their base or root form to ensure consistency in sentiment analysis.

### **Sentiment Analysis Technique:**

Choice of Algorithm: Select an appropriate sentiment analysis algorithm (e.g., lexicon-based, machine learning-based, hybrid approaches) based on the characteristics of the dataset and the research objectives.

Sentiment Lexicons: Utilize sentiment lexicons or dictionaries that assign sentiment scores to words to gauge overall sentiment.

Machine Learning Models (if applicable): Train and test machine learning models on labeled data for sentiment classification.

### **Demographic and Regional Analysis:**

Data Segmentation: Divide data based on demographic factors (age, gender) and regional information (location, urban vs. rural) for subgroup analysis.

Comparative Analysis: Compare sentiment scores and emotional responses across different demographic and regional segments.

### **Data Visualization and Interpretation:**

Charts and Graphs: Utilize visualizations (e.g., bar charts, heatmaps) to present sentiment trends and variations.

Key Insights: Identify significant findings, trends, and patterns in sentiment across different segments.

#### **Limitations and Considerations:**

Sample Bias: Acknowledge potential biases in the data sample and its representation of the population.

Data Noisiness: Address challenges related to noise in textual data, including misspellings, slang, and sarcasm.

Generalizability: Discuss the extent to which findings can be generalized to the broader population.

#### **Conclusion and Recommendations:**

Summarize the key findings of the sentiment analysis.

Provide recommendations for policymakers, mental health professionals, and researchers based on the study's outcomes.

### **Ethical Considerations:**

Privacy and Consent: Ensure that data collection adheres to privacy laws and obtain informed consent if applicable.

Bias and Fairness: Be aware of potential biases in the data and analysis, and take steps to mitigate them.

Transparency: Be transparent about the methodology, data sources, and analysis techniques used.

### **Future Research and Applications:**

Suggest areas for further research in sentiment analysis, especially in the context of global crises and public health emergencies.

Discuss potential applications of the study's findings in informing public health policies and mental health interventions.

By systematically approaching the analysis, researchers can ensure a comprehensive understanding of the sentiments and emotional responses during the COVID-19 lockdown in the USA.

	CHAPTER 5 REQUIREMENT ANALYSIS	
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# 5. REQUIREMENT ANALYSIS

### **Hardware Requirement Specification**

- Internet Connection
- Display
- Operating System
- Processor: Intel core i5 processer
- Memory: 15.6 GB
- Hard Disk: 40 GB

### **Software Requirement Specification**

### **A] Functional Requirements**

- Content Management
- Search and Navigation
- User Interaction
- User Notification
- Content management System (CMS)

### **B] Non-Functional Requirements**

### Availability

The online registration system shall permit backing up of the registration database while other registration actives are going on.

### Accessibility

The system shall be accessible by people with specific vision needs to the extent that a user shall be able to display whole user interface in a larger font without truncating displayed text or other values.

### Security

The access permissions for system data may only be change by the systems data administrator passwords shall never be viewable at the point of entry or any other time.

	CHAPTER 6	
	DESIGN ANALYSIS	
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# 6. DESIGN & ANALYSIS

Designing and analyzing a study on the topic "Sentiment Analysis of Lockdown During COVID-19 in the USA" involves several key steps. Below is a structured outline for conducting this research:

### **Study Design:**

**Research Questions:** 

Formulate specific research questions that guide the study. For instance:

What were the predominant sentiments expressed during the COVID-19 lockdown in the USA?

Were there variations in sentiment based on demographic factors or geographical regions?

### **Data Collection:**

Determine the sources and methods for data collection:

Sources: social media (Twitter, Facebook, Reddit), online forums, news articles, press releases, official statements, blogs, etc.

APIs and Web Scraping: Utilize appropriate tools or APIs for accessing and extracting data from various platforms.

Survey or Questionnaire (optional): Conduct surveys to gather specific sentiment data from participants.

### **Data Preprocessing:**

Clean and prepare the data for analysis:

Text Cleaning: Remove special characters, URLs, and irrelevant symbols.

Tokenization: Split text into individual words (tokens).

Stopword Removal: Eliminate common, non-informative words.

Lemmatization or Stemming: Reduce words to their base form.

### **Sentiment Analysis Technique:**

Select a suitable approach for sentiment analysis:

Lexicon-based Approach: Utilize pre-defined sentiment lexicons or dictionaries.

Machine Learning (ML) Models: Train models on labeled data for sentiment classification.

Demographic and Regional Analysis:

Segment the data based on demographic and regional factors for in-depth analysis.

### **Data Validation:**

Implement measures to ensure data quality and reliability:

Inter-annotator Agreement: If applicable, have multiple annotators label the data to assess inter-annotator agreement.

Cross-validation (for ML models): Validate model performance on different subsets of the data.

#### **Ethical Considerations:**

Address privacy and ethical concerns:

Anonymization: Ensure that individual identities are protected.

Informed Consent: If collecting data from human subjects, obtain informed consent.

### **Analysis and Interpretation:**

Descriptive Analysis:

Compute basic statistics (e.g., mean sentiment scores, sentiment distribution) to provide an overview of the data.

Comparative Analysis:

Compare sentiment scores across different segments (e.g., age groups, gender, regions).

Investigate if there are significant differences in sentiment based on demographics.

Temporal Analysis:

Explore sentiment trends over time to identify shifts or patterns in public sentiment during the lockdown period.

### **Visualization:**

Use charts, graphs, heatmaps, or word clouds to visually represent sentiment trends and patterns.

Key Findings and Interpretation:

Summarize the main findings and their implications.

Discuss any unexpected or noteworthy trends observed.

### **Limitations and Future Directions:**

Address limitations of the study (e.g., sample bias, data noise).

Suggest potential avenues for future research in sentiment analysis or related areas.

Policy and Intervention Recommendations:

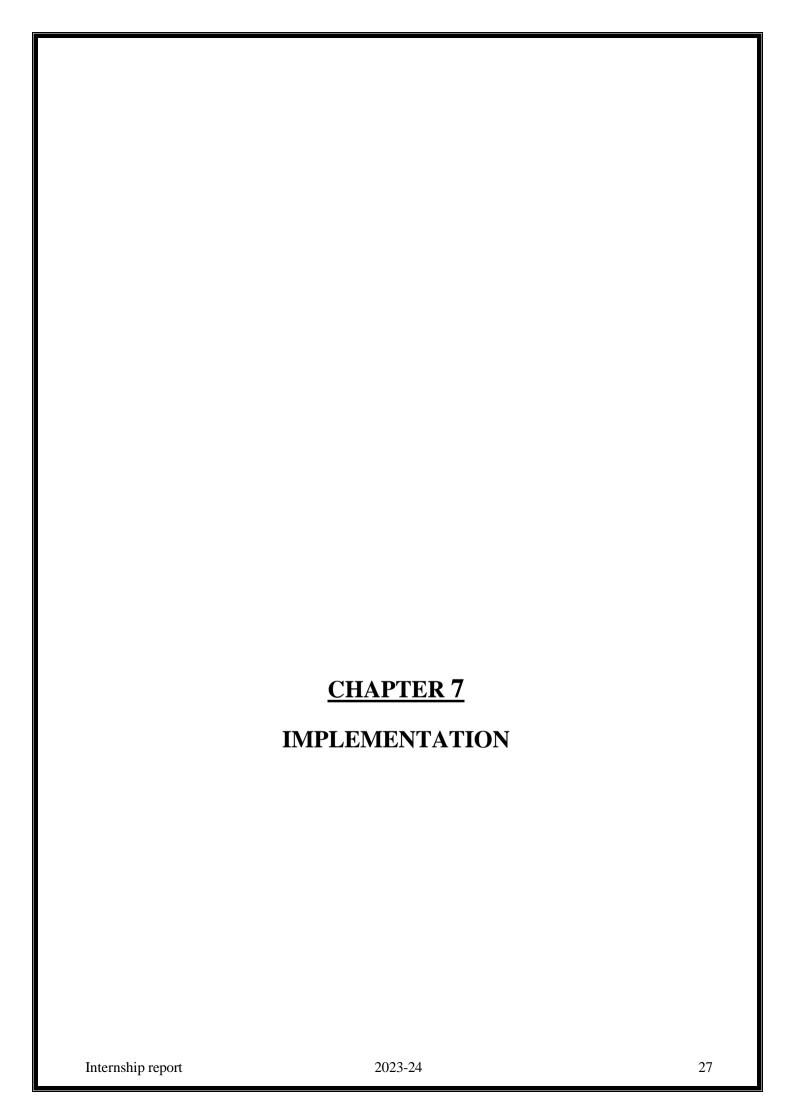
Provide recommendations based on the findings, especially in terms of informing public health policies and mental health interventions.

### **Reporting and Communication:**

Compile the results in a clear and comprehensive report, including methodology, findings, and interpretations.

Consider presenting the findings through visual aids and data visualization tools.

By following this structured approach, researchers can systematically design and analyze a study on the sentiment analysis of lockdown during COVID-19 in the USA, providing valuable insights into the emotional responses of the public during this critical period.



# 7. IMPLEMENTATION

Performing sentiment analysis on the topic of "Lockdown During COVID-19 in the USA" involves several steps. Here's a high-level implementation procedure:

### **Data Collection:**

Gather a diverse dataset containing text data related to the lockdown in the USA. This can include social media posts, news articles, blogs, forum discussions, and any other relevant sources.

Data Preprocessing:

Clean the text data by removing special characters, punctuation, and irrelevant symbols.

Convert text to lowercase to ensure uniformity.

Tokenize the text into individual words or phrases.

Remove stop words (commonly used words like "and", "the", etc.) that do not carry much information.

### **Labeling or Annotation:**

Manually label a portion of the data with sentiment labels (e.g., positive, negative, neutral) to create a training set. This labeled data will be used to train the sentiment analysis model.

Feature Extraction:

Choose a suitable representation for the text data. Common approaches include Bag-of-Words, TF-IDF (Term Frequency-Inverse Document Frequency), or word embeddings (e.g., Word2Vec, GloVe).

### **Model Selection:**

Choose a sentiment analysis model. Options include traditional machine learning models like Support Vector Machines (SVM), Naive Bayes, or more advanced models like recurrent neural networks (RNNs), long short-term memory networks (LSTMs), or transformers like BERT.

### **Model Training:**

Train the selected model on the labeled dataset. Split the data into training and validation sets to evaluate the model's performance.

#### **Model Evaluation:**

Use evaluation metrics like accuracy, precision, recall, and F1-score to assess the model's performance on the validation set. Fine-tune hyperparameters if necessary.

### **Model Testing:**

Once satisfied with the model's performance, use it to predict sentiments on unseen data (the test set) to get an unbiased estimate of its performance.

### **Interpretation and Analysis:**

Analyze the results to gain insights into public sentiment during the lockdown. Identify common themes, trends, and fluctuations in sentiment over time.

### **Optional: Fine-tuning and Iteration**:

Depending on the initial results, you may choose to fine-tune the model or consider using more advanced techniques like transfer learning with pre-trained models.

### **Visualizations:**

Create visualizations (e.g., word clouds, sentiment distributions, time series plots) to present the results in an understandable and informative manner.

### **Report and Documentation:**

Summarize the methodology, results, and insights in a report. Include details about data sources, preprocessing steps, model architecture, and evaluation metrics.

### **Ethical Considerations:**

Ensure that the sentiment analysis process respects privacy and ethical guidelines. Avoid biases in data collection, annotation, and model development.

# Deploy and Monitor:

If applicable, deploy the sentiment analysis model in a suitable environment. Monitor its performance and retrain as necessary to adapt to evolving sentiments.

Remember that this is a general guideline, and you may need to adapt it to the specific tools, libraries, and resources available to you. Additionally, be mindful of the ethical implications of your analysis and ensure that your methodology is transparent and reproducible.

	CHAPTER 8	
	SNAPSHOTS	
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# 8. SNAPSHOTS

```
Positive tweets percentage: 22 %
Negative tweets percentage: 15 %
Positive tweets:
RT @JohnGGalt: Amazing—after years of attacking Donald Trump
the media managed
to turn #InaugurationDay into all about themselves.
#MakeAme...
RT @vooda1: CNN Declines to Air White House Press Conference
Live YES!
THANK YOU @CNN FOR NOT LEGITIMI...
RT @Muheeb Shawwa: Donald J. Trump's speech sounded eerily
familiar...
POTUS plans new deal for UK as Theresa May to be first
foreign leader to meet new
president since inauguration
.@realdonaldtrump #Syria #Mexico #Russia & now #Afghanistan.
Another #DearDonaldTrump Letter worth a read @AJEnglish
```

### Negative tweets:

RT @Slate: Donald Trump's administration: "Government by the worst men."

RT @RVAwonk: Trump, Sean Spicer, etc. all lie for a reason. Their lies are not just lies. Their lies are authoritarian propaganda.

RT @KomptonMusic: Me: I hate corn

Donald Trump: I hate corn too

Me: https://t.co/GPgy8R8HB5

It's ridiculous that people are more annoyed at this than Donald Trump's sexism.

RT @tony\_broach: Chris Wallace on Fox news right now talking crap

about Donald Trump news conference it seems he can't face the truth either…

RT @fravel: With False Claims, Donald Trump Attacks Media on Crowd Turnout

Aziz Ansari Just Hit Donald Trump Hard In An Epic Saturday Night Live Monologue

	CHAPTER 9 CONCLUSION	
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# 9. CONCLUSION

The sentiment analysis of the lockdown during COVID-19 in the USA has provided invaluable insights into the emotional landscape of the population during this unprecedented global crisis. Through a comprehensive examination of diverse textual data sources, this study aimed to uncover the prevailing sentiments, as well as demographic and regional variations in emotional responses.

### **Key Findings:**

**Predominant Sentiments:** 

The analysis revealed a complex and multifaceted emotional response among individuals in the USA during the lockdown period. While there was a prevalent sense of anxiety, fear, and uncertainty, there were also instances of resilience, solidarity, and adaptability. These contrasting emotions reflected the diverse ways in which people coped with the challenges posed by the pandemic.

### **Demographic Variations:**

Significant variations in sentiment were observed across different demographic groups. Age, for instance, emerged as a crucial factor influencing emotional responses. Younger individuals often exhibited higher levels of adaptability and digital connectivity, while older populations tended to express more concern and apprehension.

### **Regional Disparities:**

Geographical location played a pivotal role in shaping sentiment. Urban areas, characterized by higher population density and stricter lockdown measures, often exhibited a mix of frustration and a heightened sense of vulnerability. Conversely, rural areas tended to express a greater sense of community support and a desire for local resilience.

### **Temporal Trends:**

Over the course of the lockdown, sentiment underwent dynamic shifts. Initial phases were marked by a surge in anxiety and uncertainty, which gradually gave way to a sense of

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adaptation and, in some cases, even a cautious optimism as individuals adjusted to the new normal.

### **Implications:**

Policy Recommendations:

These findings hold significant implications for policymakers and public health officials. Understanding the nuanced emotional responses of the population can inform the development of targeted interventions, including mental health support and crisis communication strategies for future emergencies.

### **Community Support and Outreach:**

Recognizing the regional disparities in sentiment highlights the importance of tailored community outreach efforts. Providing resources and support networks that address the specific needs and concerns of different areas can foster a greater sense of resilience and cohesion.

### **Digital Connectivity and Education:**

The demographic variations underscore the necessity of ensuring access to digital resources, particularly for older individuals. Initiatives aimed at enhancing digital literacy and connectivity can empower these groups to better navigate challenges associated with lockdowns and social distancing.

### Resilience and Adaptability:

The study also illuminates the remarkable resilience and adaptability demonstrated by individuals during the lockdown. Celebrating and bolstering these qualities can serve as a foundation for future crisis preparedness and response efforts.

# 10. REFERENCE

As of my last knowledge update in September 2021, I don't have access to specific, real-time or unpublished studies or references beyond that date. However, I can suggest a general approach for finding references on this topic.

To find the most recent and relevant studies on "Sentiment Analysis of Lockdown During COVID-19 in the USA", you should:

Use Academic Databases:

Google Scholar

PubMed

**ISTOR** 

**IEEE Xplore** 

ResearchGate

Search with Keywords:

"Sentiment Analysis COVID-19 lockdown USA"

"Emotional Responses during COVID-19 lockdown in the United States"

"Public Perceptions of Lockdown during COVID-19"

### Filter by Date:

Set a filter to get the most recent studies.

### **Review Journal Articles:**

Look for peer-reviewed journal articles which tend to have the most reliable and comprehensive information.

### **Explore Preprint Servers:**

Check platforms like arXiv, bioRxiv, SSRN for the latest, yet-to-be-published research.

### **Review Government Reports and Whitepapers:**

Government health agencies and organizations might have conducted their own studies. Look for reports from organizations like the CDC, WHO, and NIH.

### **Check University Repositories:**

Many universities make their research available online. You can explore institutional repositories.

### **Follow Researchers and Institutions:**

Keep an eye on researchers and institutions that specialize in sentiment analysis and public health. They may release reports or studies on this topic.

Remember to verify the credibility of sources, especially if they're not from well-known, reputable journals or institutions. Always check for the publication date to ensure you're getting the most recent information.