

INTERNSHIP REPORT

A report submitted in partial fulfillment of the requirements for 3rd Year

**BACHELOR OF ENGINEERING
in
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**

BY

Mr. Devrat Yashraj Deepak

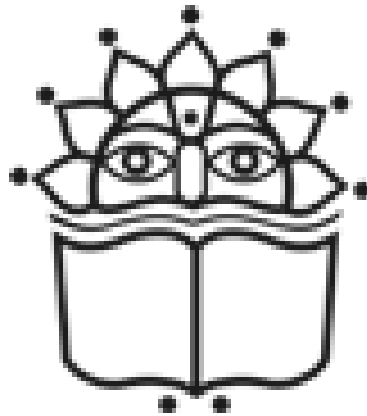
Exam Seat.No: T190352011

Under Supervision of

**Digambar Padulkar (internal),
Mr. Aman Kesarwani (external),**

at LETS GROW MORE

Duration: Start date [1/03/2023] to End date [1/04/2023]



**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND
DATA SCIENCE**

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and
Technology,
Vidyanagari Bhigwan Road
Baramati- 413133

2022-23

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and
Technology,
Baramati



CERTIFICATE

This is to certify that the “**Internship report**” submitted by **Mr. Devrat Yashraj Deepak (Exam Seat No. : T190352011)** is work done by his Online Mode and submitted during the 2022–2023 academic year, in partial fulfillment of the requirements for the 3rd Year of BACHELOR OF ENGINEERING in ARTIFICIAL INTELLIGENCE AND DATA SCIENCE, at **LETS GROW MORE**.

Digambar Padulkar
Internship Mentor

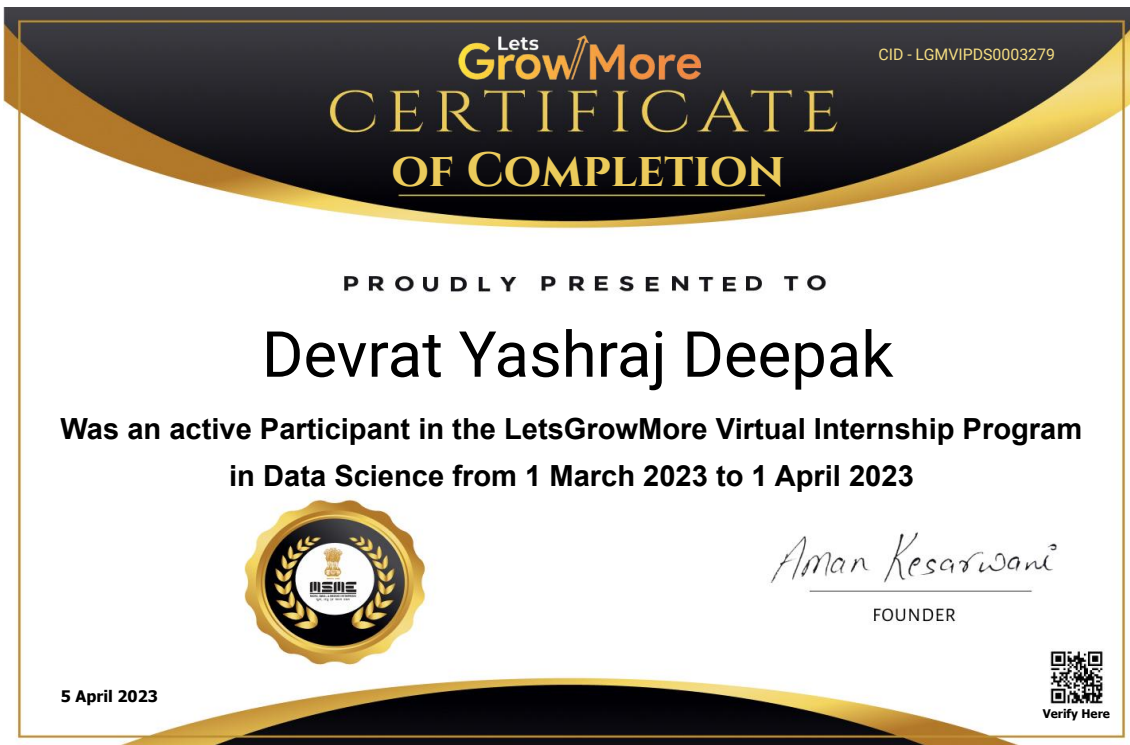
Mr. P. P. Ghorpade
Dept Internship Coordinator

Dr. P. M. Paithane
HOD, AI DS

Dr. D. B. Hanchate
Dean IIIC

Dr. R. S. Bichkar
Principal

Certificate of Internship



Acknowledgments

First, I would like to thank **Lets Grow More**, for giving me the opportunity to do an internship within the organization.

I also would like to thank all the people that worked along with me **Lets Grow More** with their patience and openness they created an enjoyable working environment.

It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals.

I am highly indebted to Principal **Dr. R. S. Bichkar**, for the facilities provided to accomplish this internship.

I would like to thank the Head of the Department **Dr. P. M. Paithane** for his constructive encouragement throughout my internship.

I would like to thank **Dr. D. B. Hanchate**, Dean IIIC, and **Mr. P. P. Ghorpade**, internship co-ordinator Department of Artificial Intelligence and Data Science for their support and advice to get and complete the internship in above said organization.

I am extremely great full to my mentor **Digambar Padulkar** and department staff members and friends who helped me in the successful completion of this internship.

Mr. Devrat Yashraj Deepak
(Exam Seat No : T190352011)

Abstract

Data science is an interdisciplinary field that involves the extraction of insights and knowledge from large and complex data sets using various techniques and tools. It combines elements of computer science, mathematics, and statistics, as well as domain-specific knowledge from various industries.

In summary, the data science internship at Lets Grow More offers an excellent opportunity for aspiring data scientists to gain hands-on experience, develop practical skills, and learn best practices in the field. The internship program provides a platform for the intern to contribute to the success of the company while also enhancing their professional development.

Keywords : Data science, Data visualization, Data analysis, Machine learning.

Organization Information

Lets Grow More is an MSME-registered start-up which develops personalized softwares Throughout the software development, Lets Grow More is committed to producing exceptional software for each of the clients to ensure that they are aligned with the end goal. The team leverages state-of-the-art tools and techniques to ensure that the solutions they develop are accurate, reliable, and scalable.

An Lets Grow More believes in making our youth especially the students self-aware and exploring the untouched world of technology and tremendous growth-making fields. oasis Lets Grow More believes in bridging the gap between students and their knowledge in the industrial field bringing them a step closer to their dream. Lets Grow More is a registered start-up, always open to connecting new people with us over this journey of endless learning and great joy!

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Chapter 1

Introduction

This internship was all about data science and analytics at LETS GROW MORE. I applied for this internship from the website of LETS GROW MORE. I completed 3 tasks out of 5 tasks. The description of all the tasks is given below:

1.1 Task - 1 (Iris flower classification)

I predicted the species of IRIS Flower using the attributes given such as petal length, sepal length, petal width and sepal width. I used Machine Learning algorithm for the classification of species.

1.2 Task - 2 (Stock Market Prediction using LSTM Network)

I explored the dataset by creating various charts and graphs using matplotlib and seaborn libraries of Python.

1.3 Task - 3 (Exploratory Data analysis on Terrorism dataset)

- I predicted the region which was affected due to terrorist attacks and also danger zones . Plotting using seaborn library of Python.

Chapter 2

Learning Objectives/ Internship Objectives

2.1 Gaining practical experience :

The internship provides an opportunity to gain practical experience in the field of data science by working on real-world projects and data sets.

2.2 Applying theoretical knowledge :

Interns can apply the theoretical knowledge gained through academic coursework to real-world scenarios and learn how to solve complex problems using data analysis techniques.

2.3 Building a professional network :

Internships offer a chance to meet and work with professionals in the field, which can help build a professional network and potentially lead to future job opportunities.

2.4 Developing new skills :

Interns can learn new skills and techniques that are not typically taught in academic coursework, such as how to work with large data sets or how to use specific tools or software.

2.5 Increasing employability :

Completing a data science internship can enhance one's employability by demonstrating practical experience and skills in the field, which can make one stand out to potential employers.

Chapter 3

Motivation/Scope and Rationale of the study

3.1 Motivation/Scope

Data science is emerging as a field that is revolutionizing science and industries alike. Work across nearly all domains is becoming more data-driven, affecting both the jobs that are available and the skills that are required. As more data and ways of analyzing them become available, more aspects of the economy, society, and daily life will become dependent on data.

1. Internships are helpful for gaining hands-on experience in the domain which we like.
2. Passionate to learn about data science.
3. Give deeply to gain more knowledge of the domain.
4. To discover the patterns in data.
5. To process the collecting, storing, segregating and analyzing data.
6. Exploring and visualizing data, analysing data and/or applying machine learning to data decisions based on acquired insight.

3.2 Rationale

The rationale behind my participation in a data science internship is to bridge the gap between academic coursework and practical experience. While academic coursework provides a theoretical foundation in data science, it often lacks the practical application of working with real-world datasets or collaborating with other professionals in the field. Therefore, this internship provides me with the opportunity to apply the theoretical knowledge.

I have learned in real-world scenarios, gain hands-on experience, and develop a deeper understanding of the field of data science. Additionally, this internship will enhance my employability by providing me with relevant experience and skills that are in high demand in the job market. Overall, this data science internship will be an excellent opportunity for me to grow both professionally and personally.

Chapter 4

Weekly overview of internship activities

4.1 Week 1 : Study about the domain

Date	Day	Name of the topic/module completed
15/03/23	Wednesday	Learning statistics
16/03/23	Thursday	Collecting datasets
17/03/23	Friday	Data cleaning methods
18/03/23	Saturday	Data analyzing methods
19/03/23	Sunday	Sunday - Holiday
20/03/23	Monday	Learning machine learning algorithms

Table 4.1: Week 1 - Tasks

4.2 Week 2 : Iris flower classification

Date	Day	Name of the topic/module completed
8/03/23	Tuesday	Govt. Holiday
9/03/23	Wednesday	Thursday Data preprocessing and visualization
10/03/23	Thursday	Learning about various ML Algorithms
11/03/23	Friday	Implementing ML Algorithm
12/03/23	Saturday	Confusion matrix
13/03/23	Sunday	Uploading task on GitHub

Table 4.2: Week 2 - Tasks

4.3 Week 3 : Stock Market Analysis using LSTM Network

Date	Day	Stock Market Analysis using LSTM Network
16/03/23	Monday	Load the data , Train and Test dataset
17/03/23	Tuesday	Analyze the dataset
18/03/23	Wednesday	Visualize the dataset
19/03/23	Thursday	Prediction using LSTM Network
20/03/23	Friday	Uploading task on GitHub

Table 4.3: Week 3 - Tasks

4.4 Week 4 : Exploratory Data Analysis on Terrorism Dataset

Date	Day	Exploratory Data Analysis on Terrorism Dataset
22/03/23	Saturday	Load the data , Train and Test dataset
23/03/23	Monday	Plotting using Seaborn library
24/03/23	Tuesday	Visualize the dataset
25/03/23	Wednesday	Prediction Models Accuracy
26/03/23	Thursday	Plotting again the predicted results
27/03/23	Friday	Uploading task on GitHub

Table 4.4: Week 4 - Tasks

Chapter 5

About Industry/Organization

5.1 Company background-organization and activities

At lets grow more believes in making our youth especially the students self-aware and exploring the untouched world of technology and tremendous growth-making fields. Lets Grow More believes in bridging the gap between students and their knowledge in the industrial field bringing them a step closer to their dream. Lets Grow More is a registered start-up, always open to connecting new people with us over this journey of endless learning and great joy!

The organization turns the digital dreams of the clients into a reality. The organization works closely with the users throughout development to ensure that organization is still aligned with the end goal. organization is committed to producing exceptional software for each of its clients.

5.2 Services

5.2.1 Website development

Our website developers provide expert web application development and web design services to our clients. LETS GROW MORE offers a variety of website design and development services, We specialize in developing interactive, scalable, brand-oriented, and business-ready custom web solutions. Our aim is to build profitable digital products engineered to spark creativity and boost ROI.

5.2.2 Cloud Computing

Whatever type of cloud computing services you use, one thing is certain: large quantities of data will move back and forth between your end users and the cloud provider's data centers, over the internet. That's why whatever type of cloud services you use, Lets Grow More can help your organization have a better cloud experience and reap greater benefits from your cloud services investment.

5.2.3 Graphic Design

Our creative designers offer outstanding and attention-grabbing visuals for brochures, banners, flyers, logos, business cards, e-books, and many more. Our graphic designs can develop a great impression on your prospect's mind. With a complete mixture of professionalism and stunning creativity skills, our expert designers can establish a bright profile for your business in the online world.

5.2.4 Animation Design

Animations make your brand more engaging and interactive. This makes them great assets to share on social media, distribute through email, feature internally and host on your website— they're that versatile. Our passionate team of motion graphics designers empower you to tell great stories for your business. We believe it's only when you tell great stories you become one.

5.2.5 Database Management

Your databases are at the core of your business. Whether you're operating on-premises or in the cloud, using a traditional or open-source platform, our global experts are available around the clock to help you turn your databases into a business differentiator. We offer a full range of solutions to support your needs—from assuming total ownership of your database environment to augmenting your internal team to helping you refactor for the cloud.

5.2.6 Machine Learning Solutions

Artificial Intelligence Machine Learning offerings help organizations build highly- customized solutions running on advanced machine learning algorithms. Our machine learning services offer advanced algorithms to help organizations in solving key business challenges, enabling data-driven decision-making and creating innovative business models.

5.3 Scope and Object of the Study

- To discover the patterns in data.
- To process the collecting, storing, segregating and analyzing data.
- Exploring and visualizing data, analysing data and/or applying machine learning to data decisions based on acquired insight.

5.4 Internship Place Details

- Internship Mode : Online
- Address : Satya Niketan, South West New Delhi, India - 110021
- Contact : hyperref

...

Contact@LetsGrowMore.In

Services.LetsGrowMore@Gmail.Com

Chapter 6

Software Requirements specifications

6.1 Software Requirements

Operating System	Windows/Linux
Python Interpreter	IDLE python
Application	Anaconda/Jupyter Notebook
Programming Language	Python

6.2 Hardware Requirement

Processor	2.0GHz
RAM	4 GB(minimum)
Hard Disk	256 GB

6.3 Dataset Used

Task - 1	Iris.csv
Task - 2	StockMarket.csv
Task - 3	Terrorism.csv

Chapter 7

Technology

7.1 Logistic Regression

Logistic regression is a data analysis technique that uses mathematics to find the relationships between two data factors. It then uses this relationship to predict the value of one of those factors based on the other. The prediction usually has a finite number of outcomes, like yes or no.

7.2 Decision Tree Algorithm

Decision Tree Algorithm is a supervised algorithm technique that can be used for both classification and regression purpose as well. It is a hierarchical , tree , structure , which consist of a root node, branches , internal nodes and leaf nodes.

7.3 Confusion Matrix

The confusion matrix is a matrix used to determine the performance of the classification models for a given set of test data. It can only be determined if the true values for test data are known. The matrix itself can be easily understood, but the related terminologies may be confusing. Since it shows the errors in the model performance in the form of a matrix, hence also known as an error matrix.

n = total predictions	Actual : No	Actual : Yes
Predicate : No	True Negative	False Positive
Predicate : Yes	False Negative	True Positive

Table 7.1: Confusion Matrix

7.4 Linear Regression

Linear regression algorithm shows a linear relationship between a dependent (y) and one or more independent (x) variables, hence called as linear regression. Linear regression is one of the easiest and most popular Machine Learning algorithms. It is a statistical method that is used for predictive analysis. Linear regression makes predictions for continuous/real or numeric variables such as sales, salary, age, product price, etc.

7.4.1 LOAD THE DATA , TRAIN AND TEST DATASET:

Loading dataset properly is also necessary so that it should not give problem later . After loading dataset I trained the dataset using Long-Short Term Memory network . At last I tested it by splitting the dataset into training and testing and predicted the accuracy score.

7.4.2 ANALYZE THE DATASET :

Data analysis refers to the process of manipulating raw data to uncover useful insights and draw conclusions. So analyzation of dataset and understanding the insights from it.

7.4.3 VISUALIZE THE DATASET:

After analysing the dataset finding of correlation and trends in the dataset . And then representing it pictographically using seaborn , matplotlib library.

7.4.4 PREDICTION USING LSTM NETWORK:

At the end we need to do train the model and predict our results. Use of LSTM network in this model to train the network .

Chapter 8

Screenshots

```
In [32]: iris_df = pd.DataFrame(iris.data, columns=iris.feature_names)
pd.plotting.scatter_matrix(iris_df,
c=iris.target,
figsize=(8, 8));
```

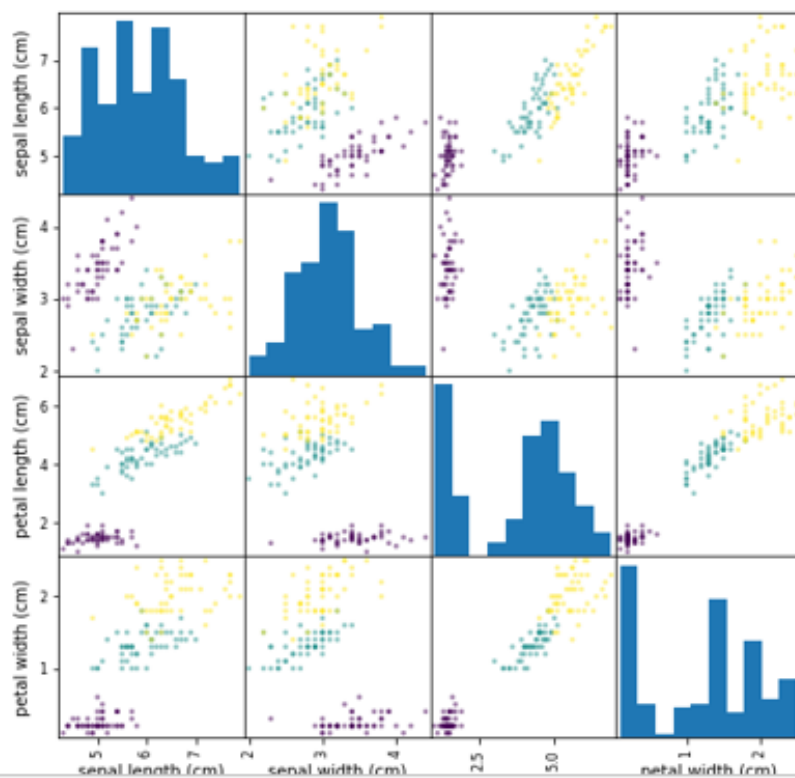


Figure 8.1: Task1 : Iris Flower Classification

```
In [ ]: plt.plot(df3)
```

```
Out[85]: [<matplotlib.lines.Line2D at 0x7f764ffa9f10>]
```

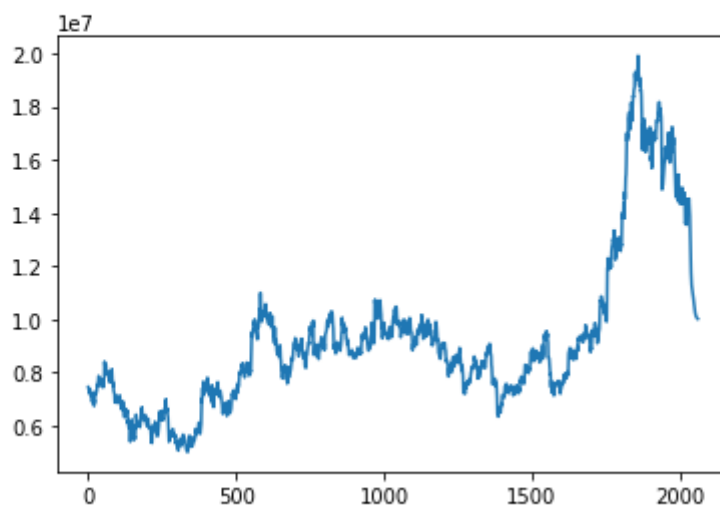


Figure 8.2: Task2 : Stock Market Analysis using LSTM Network


```

n [13]: #REGION AFFECTED BY TERRORIST ATTACK
dataset['Region'].value_counts()
plt.figure(figsize=(15,8))
sns.countplot(x='Region',data=dataset)
plt.xticks(rotation=70)
plt.show()

```

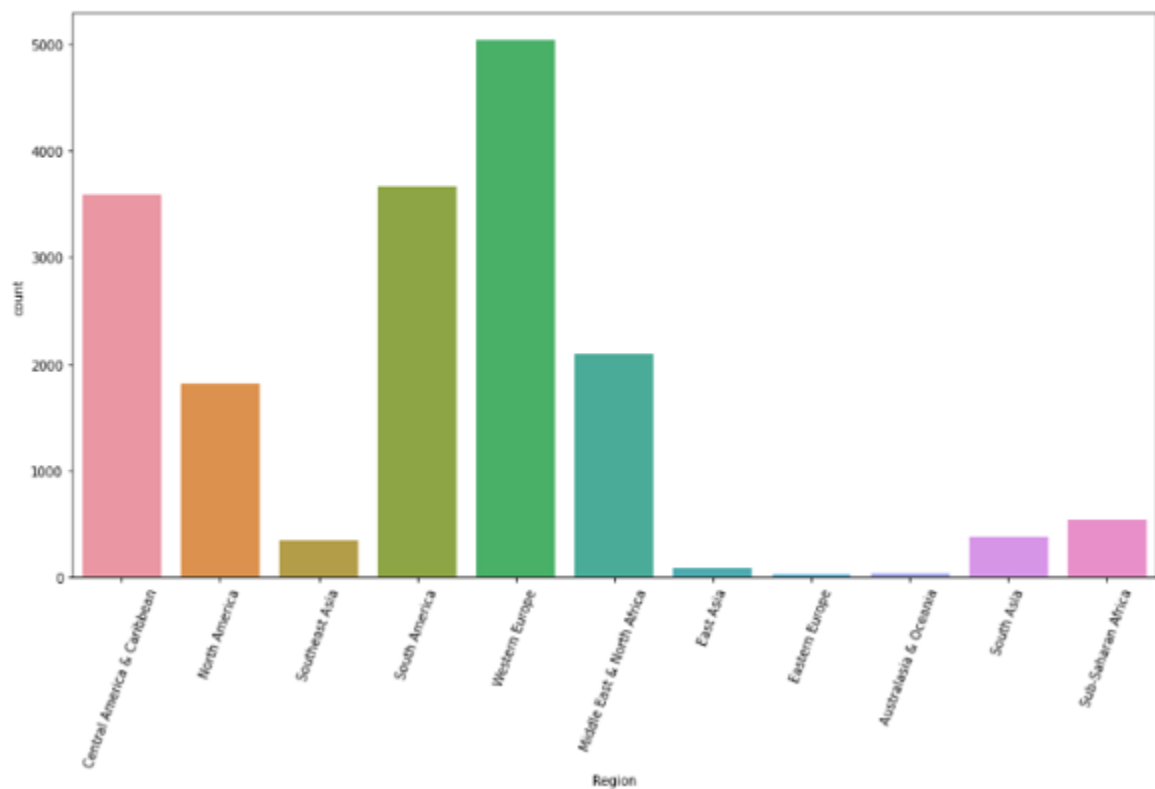


Figure 8.3: Task3 : Exploratory Data Analysis on Terrorism dataset

Chapter 9

Results/Analysis/Inferences

9.1 Results

1. Accuracy : Task 1 - The accuracy of the model is 97.37 percent.
2. Accuracy: - Task 2 - The accuracy of the model is 90 percent.
3. Accuracy: - Task 3 - The accuracy of the model is 82 percent.

9.2 Analysis

- Data Preparation.
- Feature Selection.
- Model Selection.
- Model Training and Evaluation.

9.3 Inferences

9.3.1 Task : Iris Flower Classification

1. Machine learning algorithms can accurately classify iris flower species based on their characteristics. The selected algorithm's accuracy depends on various factors such as the quality of the data, feature selection, model selection, and hyper parameter tuning.
2. The four features of the iris flower data set - sepal length, sepal width, petal length, and petal width - are the most significant factors in distinguishing between the three species. These features can help in accurately classifying the iris flowers, and similar features may be used in other classification problems.
3. The accuracy of the model can be improved by selecting the appropriate machine learning algorithm, optimizing the hyperparameters, and increasing the size of the data set.

4. The results of the analysis can be useful in various real-world applications, such as identifying plant species in agriculture, identifying disease types in medical diagnosis, and detecting fraud in finance.
5. The iris flower data set is a widely used data set in machine learning, and the analysis of this dataset can serve as a basis for understanding and analyzing other classification problems.

9.3.2 Task :Stock Market Predictionn using LSTM Network

1. Machine learning algorithms LSTM Network can do effective analysis of stock market dataset. The selected algorithm's performance depends on the quality of the data, the features selected, and the model parameters.
2. The analysis can help identify the key factors that contribute to unemployment rates, such as economic growth, population demographics, education levels, and industry trends.
3. LSTM Network can be used to predict good accuracy , so that user can gain insights and understand variations of rise and fall in the market.
4. The results of the analysis can be useful in various real-world applications, such as public policy planning, and investment decision-making.
5. Machine learning can help to develop more accurate and reliable models fo r predicting results . Using graph one can easily understand the uprise and downfall of share market or stock market.

9.3.3 Task : Exploratory Data Analysis on Terrorism dataset

1. Most of the attacks were attacked through explosives and then through firearms. Attacks were more during 2014 and then in 2015. When compared to attacks from 1970 onwards , the last 6 years scored a maximum. But from 2014 onwards count started decreasing.
2. Almost Every day has the same contribution but attacks were low during 31st and high during 15th and 1st. Iraq dominates all the countries and it has the highest number of attacks and then Pakistan, Afghanistan, and India follow it.
3. The analysis can help identify the key factors that contribute to terrorist attacks, higher chances of terrorist attacks, Zones , external conditions.
4. 4. Machine learning can be used to identify patterns and trends in dataset, providing insights into the long-term effects of attacks.

Chapter 10

Conclusion and Future Scope

10.1 Conclusion

During the internship, I worked on various projects such as iris flower classification, Unemployment analysis, and sales prediction. The analysis of these projects highlighted the effectiveness of machine learning algorithms in solving complex problems and generating insights. The internship helped in developing skills such as data wrangling, data preprocessing, feature engineering, model selection, and evaluation. Additionally, the internship also emphasized the importance of data quality, data ethics, and data privacy in the field of data science. The internship provided an opportunity to work on real-world projects, allowing us to apply the concepts and techniques learned in the classroom to real-world problems.

10.2 Future Scope

1. Continued growth in the field of data science: The field of data science is continuously evolving, with new tools, techniques, and technologies being developed. The internship can help individuals stay up-to-date with the latest trends and technologies in the field.
2. Increased demand for data scientists: With the increasing amount of data being generated in various industries, the demand for data scientists is also increasing. The internship can help individuals develop the skills and experience needed to pursue a career in data science.
3. Opportunities for further learning: The internship can provide a foundation for further learning in data science, such as pursuing a master's degree or other advanced training programs.

Chapter 11

Attendance Record

- **Name and Address of Organization :**

Vidya Pratishtha's Kamalanayan Bajaj
Institute of Engineering and Technology
Baramati -413102

Name of Student	Mr. Devrat Yashraj Deepak
Roll. No	2237031 (T190352011)
Name of Course	TE - Artificial Intelligence and Data Science
Date of Commencement of Training	1/03/2023
Date of Completion of Training	1/04/2023

- **Initials of the Student :**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Month and Year																															
March - 2023																															

- **Note :**

1. The attendance Sheet should remain affixed in Daily Training Diary. Do not remove or tear it off.
2. Students should sign/initial in the attendance column. Do not mark 'P'.
3. Holidays should be marked in red ink in the attendance column. Absent should be marked as 'A' in Red Ink.

Signature of Company
internship supervisor /

Dept. Mentor with company
stamp/ seal

Name: _____

Contact No. : _____

Chapter 12

Documents related to internship

12.1 Offer letter



12.2 Congratulation Offer Letter

01/05/2023, 11:05

Gmail - Congratulations 🎉 🤗 || Offer Letter



Yashraj Devrat <yashrajdevrat03@gmail.com>

Congratulations 🎉 🤗 || Offer Letter

2 messages

LetsGrowMore <info@letsgrowmore.in>
Reply-To: letsgrowmoreinfo@gmail.com
To: Akesarwani2202 <akesarwani2202@gmail.com>

Thu, Feb 23, 2023 at 11:10 PM

Congratulations, you have been selected for LGMVIP!!

Please find your Welcome Letter in the attachment to this email.

Task List - [PDF](#)

Find your welcome letter [HERE](#)

There are some essential points you have to remember during your internship tenure.

Task submission will be this way -

1. At least 3 tasks([Check PDF](#)) are mandatory to be completed to become eligible for the certification and 10 tasks to become eligible for LOR.

2. Update your LinkedIn Profile and share all the achievements that you got from us and tag [Mr. Aman Kesarwani](#) and [LetsGrowMore](#).

3. Share the video of the completed task on LinkedIn and tag [Mr. Aman Kesarwani](#) and [LetsGrowMore](#). (Explanation is mandatory) .

4. Maintain a separate GitHub repository(name as LGMVIP- DataScience) for all the tasks and share the link of the GitHub repo in the task submission form(it will be given later through email or discord).

5. If your project or code is found copied, your internship will be terminated and you will be banned from further opportunities with LetsGrowMore.

The timeline will be this way!

28 February - The application Closes and is Open for next month.

2nd March - Orientation Ceremony on our [YouTube Channel](#).

Till 5 March - All the interns receive their offer letter via mail.

1 March - Internship started(officially)

20 March - The task submission form will be sent to all the interns.

31 March - Last date of task submission.

In the first week of April - The internship completion certificate will be sent to deserving candidates.

Congratulations 🎉, once again on being selected for LGMVIP.

Find your welcome letter [HERE](#)

If you have any issues ping us on discord - letsgrowmore.in/discord

<https://mail.google.com/mail/u/0/?ik=8bcedb01f8&view=pt&search=all&permthid=thread-f:1758644415718951751&simpl=m...> 1/3

12.3 VIP Badge Selection

01/05/2023, 11:06

Gmail - LetsGrowMore : : VIP Badge of Selection☺



Yashraj Devrat <yashrajdevrat03@gmail.com>

LetsGrowMore : : VIP Badge of Selection🥳

2 messages

LetsGrowMore <hr.letsgrowmore@gmail.com>
To: akesarwani2202@gmail.com
Bcc: yashrajdevrat03@gmail.com

Sat, Feb 11, 2023 at 2:51 PM

DEAR APPLICANT,
LETSGROWMORE (LGM) CONGRATULATES YOU FOR SECURING A PLACE AS A DATA SCIENCE INTERN IN ITS VIRTUAL INTERNSHIP PROGRAM (VIP). WELCOME TO THE TEAM.



Please Expect an Orientation Email in the 1st week of February 2023 with the list of Tasks.

Meanwhile, Please Join LinkedIn Group, YouTube and Discord Server of LetsGrowMore.

Want training on data science ? - letsgrowmore.in/educate

If you haven't joined yet, Join Now -

Linkedin Group Link - <https://www.linkedin.com/groups/12540463>

Discord Server Link - <https://discord.com/invite/HZe8KHtNk6>

YouTube Link - [YouTube.com/LetsGrowMore](https://www.youtube.com/LetsGrowMore)

All others link - letsgrowmore.in/links

<https://mail.google.com/mail/u/0/?ik=8bcdcb01f8&view=pt&search=all&permthid=thread-f:1757525891968063431&simpl=m...> 1/3

12.4 Completion Certificate Gmail

01/05/2023, 11:04

Gmail - LGM - VIP Certificate of Completion | Congratulations 🎉 😊



Yashraj Devrat <yashrajdevrat03@gmail.com>

LGM - VIP Certificate of Completion | Congratulations 🎉 😊

1 message

LetsGrowMore <offer-ds@letsgrowmore.in>
Reply-To: letsgrowmoreinfo@gmail.com
To: Akesarwani2202 <akesarwani2202@gmail.com>

Wed, Apr 5, 2023 at 3:30 PM

**Lets
GrowMore**

Congratulations!

Your Certificate is Ready



Hey Geek,

Congratulations! You've successfully completed the Virtual Internship Program: LGM-VIP. We are pleased to issue your LGM-VIP Certificate.

Click [here](#) to download

Now that you've earned your Certificate, why not share it with your network?

Ways to share:

1. Add your Virtual Internship Program: LGM-VIP Certificate directly to your LinkedIn profile
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