

PROGRAM BOOK FOR
SHORT-TERM INTERNSHIP
(Onsite / Virtual)

Name of the Student: SIVAATHI REKAM

Name of the College: ADITYA DEGREE COLLEGES

Registration Number: 221177156183

Period of Internship: From: 10/05/2024 To: 30/06/2024

Name & Address of the Intern Organization ULearn - Edu

ADIKAVI NANNAYYA University
2024 - 2025 ^{YEAR}

An Internship Report on
Artificial Intelligence & Machine Learning
(Title of the Internship)

Submitted in accordance with the requirement for the degree of

Under the Faculty Guideship of

K. Vasu Sir

(Name of the Faculty Guide)

Department of

Data Science, Aditya Degree College

(Name of the College)

Submitted by:

Swathi Rekam

(Name of the Student)

Reg.No: 221177156183

Department of Data Science

Aditya Degree College

(Name of the College)

Instructions to Students

Please read the detailed Guidelines on Internship hosted on the website of AP State Council of Higher Education <https://apsche.ap.gov.in>

1. It is mandatory for all the students to complete 2 months (180 hours) of short-term internship either physically or virtually.
2. Every student should identify the organization for internship in consultation with the College Principal/the authorized person nominated by the Principal.
3. Report to the intern organization as per the schedule given by the College. You must make your own arrangements for transportation to reach the organization.
4. You should maintain punctuality in attending the internship. Daily attendance is compulsory.
5. You are expected to learn about the organization, policies, procedures, and processes by interacting with the people working in the organization and by consulting the supervisor attached to the interns.
6. While you are attending the internship, follow the rules and regulations of the intern organization.
7. While in the intern organization, always wear your College Identity Card.
8. If your College has a prescribed dress as uniform, wear the uniform daily, as you attend to your assigned duties.
9. You will be assigned a Faculty Guide from your College. He/She will be creating a WhatsApp group with your fellow interns. Post your daily activity done and/or any difficulty you encounter during the internship.
10. Identify five or more learning objectives in consultation with your Faculty Guide. These learning objectives can address:
 - a. Data and Information you are expected to collect about the organization and/or industry.
 - b. Job Skills you are expected to acquire.
 - c. Development of professional competencies that lead to future career success.
11. Practice professional communication skills with team members, co-interns, and your supervisor. This includes expressing thoughts and ideas effectively through oral, written, and non-verbal communication, and utilizing listening skills.
12. Be aware of the communication culture in your work environment. Follow up and communicate regularly with your supervisor to provide updates on your progress with work assignments.

13. Never be hesitant to ask questions to make sure you fully understand what you need to do your work and to contribute to the organization.
14. Be regular in filling up your Program Book. It shall be filled up in your own handwriting. Add additional sheets wherever necessary.
15. At the end of internship, you shall be evaluated by your Supervisor of the intern organization.
16. There shall also be evaluation at the end of the internship by the Faculty Guide and the Principal.
17. Do not meddle with the instruments/equipment you work with.
18. Ensure that you do not cause any disturbance to the regular activities of the intern organization.
19. Be cordial but not too intimate with the employees of the intern organization and your fellow interns.
20. You should understand that during the internship programme, you are the ambassador of your College, and your behavior during the internship programme is of utmost importance.
21. If you are involved in any discipline related issues, you will be withdrawn from the internship programme immediately and disciplinary action shall be initiated.
22. Do not forget to keep up your family pride and prestige of your College.

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Student's Declaration

I,Swathi...Rekam....., a student of
....B.Sc....(Data....Science.).... Program, Reg. No.221132156123 of the
Group ofData....Scienc.....Aditya....Degree..... college do
hereby declare that I have completed the mandatory Internship from
....10.1.2024 to ..30..10.12.2024... inuLearn....e...
(Name of the intern organization) under the Faculty Guideship of
....Gives...Prasanth..Sir... (Name of the Faculty Guide), Department
of ...Data....Science..... in college.

(Signature and Date)

Official Certificate

This is to certify thatSwathi...Rekam.....
(Name of the student) Reg. No.21177156183.... has completed
his / her Internship inU.learn....edu..... (Name of
the Intern ship) under my supervision as a part of partial fulfillment
of the requirement for the Degree ofB.Sc.....
in the Department of ..Data..Science..., Aditya...Degree.college
(Name of the college).

This is accepted for evaluation.

(Signature with Date and Seal)

Endorsements

Faculty Guide

Head of the Department

Principal

Certificate from Intern Organization

This is to certify that Sonali Rekam
(Name of the intern) Reg. No. 22117756183 of
..... Aditya Degree College (Name of the College) underwent
internship in Learn-fdu (Name of the
Intern Organization) from ... 10.05.2024 to 30.06.2024

The overall performance of the intern during his / her internship is
found to be Satisfactory (Satisfactory /
Not Satisfactory)

Authorized Signatory with Date and Seal

Acknowledgements

It is indeed with a great pleasure and immense sense of gratitude that we acknowledge the help of these individuals we would like to thank you our guru purasanth sir, u learn for this constructive criticism throughout the project we have grateful to give purasanth sir, for teaching new concepts. he has been a constant source of inspiration for us.

We are deeply thankful for his support and valuable advise

We are highly indebted to our principal Smt Deepthi , Aditya Degree college Tuni, for the facilities provided to accomplish the main project.

Contents

1. Introduction to AI and ML
2. ML and types of ML
3. Applications of ML
4. Deep learning
5. ANN, NLP, CL
6. AI tools we used in our daily life.
7. Back propagation.
8. Difference between neural network and deep neural network.
9. Difference between chat gpt and google.
10. pos & Tagging.
11. Object detection
12. CNN algorithm
13. Deepfake , Deep dream
14. GAN model & Architecture.
15. Data Augmentation
16. parameters sharing & typing
17. ensemble methods
18. Bayes theorem
- 19.

19. LSTM - long short term memory
20. Restricted Boltzmann Machine - RBM
21. RNN - recurrent neural networks
22. Auto encoders and types
23. VGG Net and Architecture.
24. Google Net and its Architecture.

Programming Languages

1. Python and uses of python
2. Python and pycharm, anaconda in stallions
3. Data types
4. Arithmetic operations
5. Declaration of comments and variables
6. Reserved words
7. Control statements
8. Prime number, factors, reverse no, duplicates elimination.

CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

U Learn- Edu is an Edu Tech company and training program, has been offering the services since 2022. It is a comprehensive Responsibility for online, offline courses offering high quality shape of the art IT and Business Related, training and courses.

We commenced, Its IT education & training business and have trained thousands of students.

The discipline of AI and ML is expanding rapidly and Machine learning is an recommendation engines. Besides these primary applications, self driving cars, Robotics and chatgpt etc.

The algorithm used in machine learning to improve themselves automatically over time, for instance, software that employs ML to recognize patterns in improve its ability to analyse suspicious required amount of data such as sick leave, sickness & spam email.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission, and Values of the Organization
- C. Policy of the Organization, in relation to the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

Ulearn, we are passionate about revolutionizing education by providing cutting-edge technology and business development courses. We strive to empower individuals and organizations with the knowledge and skills they need to succeed in today's dynamic world. To be a global leader in innovative education, empowering individuals and businesses to thrive in digital age our mission is to democratize access to high-quality education by offering a diverse range of technology. We to inspire life long learning, to steal creativity the values are excellence innovation.

Accessible, collaboration and integrity the organization content Development to creating and updating quality of Education Technology focuses on developing and maintaining our learning platform operations manage the day to day administrative tasks logistics and Resourelle.

CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

The vLearn internship program is a dynamic 40-days initiative designed to equip participants with a solid foundation in Artificial Intelligence and Machine learning. The immersive experience covers key concepts such as Introduction to AI and ML, Deep learning. Through a blend a theoretical learning and hand-on practical exercises.

Interns will develop proficiency in data analysis, model building and problem-solving techniques essential for AI and ML applications.

The project culminates in a capstone project where interns apply their skill to

real-world challenges, solidifying their understanding and readiness for the industry with expert guidance and a collaborative learning environment. The ULearn internship program provides a transformative experience for aspiring AI and ML professionals, preparing them for success in this rapidly evolving field.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to AI & ML	we learn the importance of AI and ML	
Day - 2	ML and types of ML	we learn the importance of ML	
Day - 3	python and uses of python	we learn the importance of python	
Day - 4	Applications of ML	we learn the Applications	
Day - 5	Deep learning	we learn the importance of Deep learning	
Day - 6	python and pycharm anaconda installations	we learn the importance and how to download in python.	

WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

AI is a branch of computer science it is the simulation of human intelligence process by machines is called AI.

ML is a subset of AI. ML is used to solve the problems that was learns from data.

ML are 3 types.

- ① supervised
- ② unsupervised
- ③ Reinforcement

ML is used in Healthcare, email spam, social media.

Deep learning is a subset of Machine learning that uses multilayered neural network.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	ANN, NLP, CC	we learn the ANN, NLP, CC	
Day - 2	AI tools we used in our daily life.	we learn AI tools	
Day - 3	Data types	we learn the importance of Datatypes	
Day - 4	Back propagation	we learn the back propagation.	
Day - 5	Difference b/w neural network and deep neural network	we learn the difference b/w NN and DNN	
Day - 6	Assignment - I	learn the things that was completed in earlier classes	

WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

- Chat GPT is an AI Generative tool
- Google is a predictive AI.
- POS tagging are also called grammatical tagging.
- Arithmetic operations are used to perform mathematical operations on variables.
- Object detection is a computer vision task that identifies object in image or video frames.
- CNN stands for convolutional Neural Network. It is a type of deep learning algorithm that is well suited for image recognition.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Difference b/w chatgpt & google	we learn the importance of chatgpt & google	
Day -2	pos Tagging	learn about pos tagging	
Day -3	Arithematic operations	we learn about Arithematic operations	
Day -4	object detection	we learn object detection	
Day -5	CNN algorithm	we learn the importance of CNN	
Day -6	Declaration of comments & variables	we learn comments & variables.	

WEEKLY REPORT

WEEK - 3 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Deep Face :

It is digitally altered image, video or audio that replace the one person face to another face is called Deep Face.

Deep Dream :

Deep Dream is one of the application of deep learning in computer vision.

→ Reserved words in Python include True, False, elif, else, break, class, continue, return. There are 33 reserved words.

→ Data Augmentation is a collection of raw factors.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Deep fake, Deep dream	we learn Deep dream	
Day - 2	GAN model & Architecture	we learn importance of GAN Model	
Day - 3	Reserved words	we learn reserved words	
Day - 4	Data Augmentation	we learn importance of data Augmentation	
Day - 5	parameter sharing & typing	we learn parameter sharing & typing	
Day - 6	Assignment - 2	we know the topic that was covered on earlier.	

WEEKLY REPORT
WEEK - 4 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

- Bayes theorem:
Finds the probability of an event occurring given the probability of another event that has already occurred is called Bayes theorem.
- Control statements
 - conditional - if else , simple if , nested if
 - Looping - while, for, Do-while
- LSTM is a type of recurrent neural network architecture that is designed by the problem of vanishing expanding gradients in traditional RNN.
- RBM is a type of Artificial neural networks that commonly used in unsupervised learning.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	ensemble methods	we learn the ensemble methods	
Day -2	Baye's theorem	we learn the Baye's theorem.	
Day -3	control statements	we learn the control statements	
Day -4	long short term memory	we learn the importance of LSTM	
Day -5	Restricted Boltzmann Machine	we learn the RBM technique	
Day -6	prime number factors	we learn how to execute prime number program	

WEEKLY REPORT

WEEK - 5 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

→ RNN is a network we have separate and independent input and output layers.

RNN 4 types

- one to one
- one to many
- many to one
- many to many

→ VGG Architecture consists of blocks, where each block composed of 2D convolution and Max pooling layers.

→ Google Net Architecture.

Google Net is used in deep learning model which is developed by Researchers of google it contains 22 layers and trained on image net dataset.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Recurrent Neural Network	we learn about RNN	
Day - 2	Auto encoders and types	we learn importance of Auto encoders	
Day - 3	Reverse no, duplicates elimination	we learn about the Reverse no	
Day - 4	VQVAE Net and Architecture	we learn importance of VQVAE Net.	
Day - 5	Gidogle Net and		
Day - 6	quiz		

WEEKLY REPORT

WEEK - 6 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

→ Data Types

Data type is to know the type of the data.

- Integer
- Float
- Boolean
- String

→ AI tools we used in our daily life.

- ① Voice Assistance
- ② NLP - Natural language processing.

CHAPTER 5: OUTCOMES DESCRIPTION

Describe the work environment you have experienced (in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

ULearn-Edu is an edutech platform which provides the good technical skills to the transpose which leads to successful carrier. Beginning from the day of Internship program every information provided by the Ulearn team was very useful and accurate. It helped us to be confident and face the trouble easily. The communication of the support team with students is approachable. The support team also helped to know the need and significance of the time management and the technical skills we learned in this internship program are very helpful to face the challenges in future. And we also learned in this internship program

are very helpful to face the challenges in future. And we also learned that the team work helps to complete the work more efficiently and it helps to exchange the new the discipline is the key to the success and time is more valuable to a student.

The exams conducted by the company are helped a lot, to test our skills and work on the lacks. This program helped to learn new technologies in learn it self. The main thing we learned from this internship program is the significance of technical skills for the successful courses.

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

The internship program provided by the organization is a helpful mean acquire the good technical skills. The internships program is about AI & ML. I learned new technologies used in IT, sector and software used in the AI & ML.

The AI & ML is one of the largest technology which is used to the different technologies and I also acquired knowledge about different algorithm used in the machine learning.

The Machine learning is used to predict the largest amount of data. It makes the predictions based on the past experience. we also learned about the basics of python is a easy and simple programming language.

I believe that the technical skill we
helpful to in my future achieve my goal
and I appreciate the clear you providing
this wonderful internship program.

Describe the managerial skills you have acquired (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.

As the classes were already scheduled by the team. I have also required a lot of management skills like communication and passing the information very accurate to the group of the students and mentor. It is a bit difficult task to lead a team but they learnt how to manage predictive Manage and learnt how to manage predictive with even less supportive members. Even my efficiency had also increased in the process.

planning: planning is the case of time management with the proper plan you can prioritise your tasks accidentally accordingly which can help and unnecessary stores a planned work scheduled help you complete the tasks in given time.

Global settings

Global settings is the process of defining your corner and objectives with a certain plan to help you the set goals setting goals is key step in executing as a professional without goals.

Decision making

Decision making skills shows your ability to select the best possible option from alternative available, the ability to maintain good decisions to contribute to company goals.

Performance Analysis

Performance analysis discipline that process athletes and coaches with objectives information that understands performance this is under by systematic

Describe how you could improve your communication skills (in terms of improvement, in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.)

In this internship program provided by the ulearn. I acquired four the four primary required skills in communication such as, listening, speaking, reading and writing.

- My verbal skills are improved a lot by this internship training program. My verbal communication skills helped me to speak more confidently and reduce the tenseness levels while addressing the particular issue.
- Conversational abilities were improved communication with co-intern during the team work activities the team work is very important- a certain task more efficiency.

- The main conclusion is my communication during this internship was learning is listening rather than speaking which is helped me to improve my understandings and grasping levels.
- The listening skills are more important in any conversation. It helps know the thought of the other people and to take the right decisions.
- Ability to use right articles in the below the surface to move the purpose appropriate.

Describe how could you enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

1. Listen Actively

Listen and pay attention to what other team members are saying in group discussions. List questions to clarify and point that you don't understand. Listening skills are more important in any conversation. It helps to incharge the ideas and knowledge.

2. Speak up

Speak up and contribute your ideas to discussions. Be sure to explain your ideas and give clear examples.

3. Be-open-minded

Listen to the ideas and opinions of others. Even if they differ from your own. Be open to considering different perspective. It helps to move the good decisions.

4. Respect others

Respect the views of other and stay focused on the task at hand. Avoid getup into lengthy debates.

5. Improving leadership skills

Leadership skills are very important to leader the team in a right way. The leadership skills are important to blind. The whole team are one. It helps to exchange the ideas between the team.

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

The internship program in AI & machine learning provided by uLearn involves different technologies in different applications. AI is pivotal in all industries running in the modernally digital world.

The demand in AI & ML and ML being pushed forward by the growing popularity of cloud computing augmented reality and virtual reality. Depending on the objectives might choose from a wide range of tools including tensorflow, machine learning algorithms has crucial roles in AI technology innovation.

The discipline of AI & ML is expanding rapidly and machine learning is an integral part of it. One popular use of machine learning

is these primary application fraud detection, malware detection.

We learned about different new software and tools in AI & ML is one of the popular technology used in different applications we are grateful to learn if providing this training program.

Student Self Evaluation of the Short-Term Internship

Student Name: Swathi Rekam

Registration No: 201177156133

Term of Internship: Short From: 10/06/2024 To: 30/06/2024

Date of Evaluation:

Organization Name & Address: Ulearn - Edu

Please rate your performance in the following areas:

Rating Scale: Letter grade of CGPA calculation to be provided

1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	OVERALL PERFORMANCE	1	2	3	4	5

Date:

Signature of the Student

Evaluation by the Supervisor of the Intern Organization

Student Name: *Sivashree Rekam*

Registration No: *82117-215678*

Term of Internship: *Short Term* From: *10/05/2024*

To: *30/06/2024*

Date of Evaluation:

Organization Name & Address: *ulearn - edu*

Name & Address of the Supervisor
with Mobile Number

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self-evaluation

Rating Scale: 1 is lowest and 5 is highest rank

1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	OVERALL PERFORMANCE	1	2	3	4	5

Date:

Signature of the Supervisor