PROGRAM BOOK FOR

SEMESTER INTERNSHIP

Name of the Student: Thippana Premkumar

Name of the College: GOVERNMENT DEGREE COLLEGE RAJAMPET

Registration Number: 236030865016

Period of Internship: From 24-11-2025 To 31-03-2026.

Yogi Vemana University

2026

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An Internship Report on

Chatbot Development Using Artificial Intelligence

Submitted in accordance with the requirement for the degree of 3rd year BSC

(computer science)

Under the Faculty Guideship of

N B.SIVARAMREDDY

Department of
Science

GOVERNMENT DEGREE COLLEGE RAJAMPET

Submitted by:

Thippana Premkumar
Reg.No: 236030865016
Department of Science

GOVERNMENT DEGREE COLLEGE RAJAMPET

ANJANAAS
FOUNDATION

EDUCATION I HEALTH I AGRICULTURE I ENLIGHTENMENT

Regd No:- Bk-4, CSNo.4/2020

CERTIFIED

CERTIFICATE

This is to certify that Mr./Miss. Thippana Premkumar Reg. No 236030865016 of GOVERNMENT DEGREE COLLEGE RAJAMPET underwent internship on Chatbot Development Using Artificial Intelligence in Anjanaa's Foundation for 2025-26 AY LTI

The overall performance of the intern during his/her internship is found to be satisfactory.

Date:01-04-2026

AnjanaasFoundation

ISO9001:2015

www.anjanaasfoundation.org

Naveen Batchu
Founder
AnjanaasFoundation

Student's Declaration

I, **Thippana Premkumar** a student of **3rd year BSC (computer science)** Program, Reg. No 236030865016 of the Department of **Science** College do hereby declare that I have completed the mandatory internship from 24-11-2025 to 31-03-2026 in Anjanaa's Foundation under the Faculty Guideship of N B.SIVARAMREDDY Department of Science, GOVERNMENT DEGREE COLLEGE RAJAMPET

T. prem kumar

(Signature and Date)

Official Certification

This is to certify that Thippana Premkumar Reg.No. 236030865016 has completed his/her Internship in Anjanaa's Foundation on Chatbot Development Using Artificial Intelligence under my supervision as a part of partial fulfillment of the requirement for the Degree of 3rd year BSC (computer science) in the Department of Science, *GOVERNMENT DEGREE COLLEGE RAJAMPET.*

This is accepted for evaluation.

(Signatory with Date and Seal)

Endorsements

Faculty Guide

Head of the Department

Principal

Principal
GOVT. DEGREE COLLEGE,
Rajampet, Kadapa Dist. 516115

Certificate from Intern Organization

This is to certify that **Thippana Premkumar** Reg. No **236030865016** of **GOVERNMENT DEGREE COLLEGE RAJAMPET** underwent internship in Anjanaa's Foundation from **24-11-2025** to **31-03-2026**

The overall performance of the intern during his/her internship is found to be Satisfactory.

ANJANAA'S FOUNDATION Reg No: 4/2020,BK-4 80G Certified

Authorized Signatory with Date and Seal

Acknowledgements

I wish to express my deep sense of gratitude to our Honorable Commissioner of Collegiate Education for giving me this opportunity and this encouragement to do this project. I would like to place my graceful thanks to UGC, APSCHE and 47 for placing Long Term Project in our UG Curriculum. I am very thankful to, ***Dr B.Purushotam M.Sc,M.Ed,PhD*** *Principal, GOVERNMENT DEGREE COLLEGE RAJAMPET to take up this project.*

I would like to express my deep sense of gratitude to my Project Mentor ***N B.SIVARAMREDDY*** *Lecturer in Science for his guidance and support given to me throughout the project work. I am very thankful for his constant encouragement, accessibility and valuable suggestions. I wish to express my thanks to other Staff Member in the department of Science for providing valuable suggestions regarding this work.*

I am extending my heart full thanks to my internship organization and respondents of my project questionnaires for filling the questionnaires with a lot of patience. Without their cooperation support, it would have been impossible for me to complete this project work. I would like to take this opportunity to express my deepest appreciation and gratitude to my parents, friends and other people who have contributed to the completion of this work.

T. Premkumar

Thippana Premkumar

REGNO.**236030865016**

Content

chapter-1 Internship organisation Profile

Anjanaas foundation is a non-profit organisation based in Andhra Pradesh dedicated to empowering individual through education skill development, health, agriculture and community development. The foundation plays a significant role in fostering experience learning through its well-structured internship programs

*Vision :-

To create a self-sustaining society by providing quality education skill development and opportunities for holistic growth ensuring that every individual can contribute meaningfully to the community.

*Mission :-

To bridge the gap b/w education and employment by equipping individuals with industry-relevant skills to provide inclusive learning environments that cater to diverse communities including underprivileged and differently abled individuals.

*objectives :-

To offer structured internship programs hands on experience in various disciplines to collaborate with educational institutions.

Anganoos foundation provides internships in multiple fields, ensuring a practical learning experience for students.

a. Internship scope & Reach :-

The foundation has provided 10,000 internship opportunities across various universities in AP.

b. Key Training Areas :-

Information Technology & Digital skills :-

Python, Data science, Cloud computing, Full stack Development, Digital marketing, DevOps, Service Now, MySQL, Tableau, web technologies Gen AL, ML, Agentic AI.

Business & Management :-

Office administration, Tally, GAP competitive exam preparation courses.

Science & Agriculture :-

Life sciences, Agriculture, Forestry, Pharmacy, Food technology.

c. Industry collaboration & careers Development :-

The foundation works with leading companies across India ensuring that trained interns receive property assignment duties.

Chapter-2 :- Executive Summary

This internship program focused on the study and practical application of AI concepts and technologies. The training was conducted under the guidance of Anjordas foundation, where students were introduced to both theoretical and practical aspects of AI.

The internship began with an introduction to AI, its historical evolution, scope and various branches such as Machine learning natural language processing computer vision and Robotics.

The second phase of the internship explored the foundation of human reasoning focusing on Aristotelian logic, syllogistic reasoning, deductive reasoning, logical validity, sound and unsound reasoning, and logical consistency in decision making.

Following the conceptual foundation of human reasoning focusing on Aristotelian logic, syllogistic reasoning widely used for AI and data science applications. Topics included conditional statements, loops and data structures such as lists, tuples, sets and dictionaries.

The internship then progressed to data processing techniques using the pandas library which introduced students

This internship falls under the AI and software development sector, with a focus on machine learning, natural language processing and generative AI systems. The training covered multiple technological domains including Python Programming machine learning algorithms

Learning objectives :-

To understand the fundamental concepts and evolution of AI.

To study logic reasoning systems and their influence on intelligent machines.

To develop Programming skills using Python for AI applications.

To learn data structures and data Processing techniques required for machine learning.

To design and develop an AI-based chatbot system using generative AI APIs.

Outcomes Achieved :-

Developed a strong conceptual understanding of AI.

Gained practical experience in Python Programming for AI systems.

Learned how machine learning models such as regression and clustering algorithms.

Chapter-3 :- Internship Part

Description of Activities & Responsibilities

Work Environment & Tools used :-

The internship training and Project development were conducted in a Practical Programming environment focused on AI and machine learning applications.

Programming Language :- Python.

Development Environment :- Google colab.

Machine Learning Libraries :-

Numpy - Numerical computations and data manipulation.

Scikit-learn - Machine learning model implementation.

MatPlotlib - Data visualization and model analysis.

Generative AI Platform :-

Google generative AI studio (Gemini large language model).

Interface Framework :-

Gradio - web interface for chatbot interaction.

Weekly work schedule :-

Weeks 1-3 : Foundations of AI and Python Programming :-

The initial weeks focused on building understanding of AI and introducing the Programming tools required for AI development.

Topics covered included :

* Introduction to AI and its historical evolution.
* Scope and applications of AI in various industries.
* Basic concepts of AI including Machine learning, natural language processing, Robotics.
* Foundations of human reasoning and logical decision making.

Weeks 4-6 : Python data structures and Data Processing for AI :-

This phase focused on Programming constructs required for AI development.

Topics covered included :

* Python data structures including lists, tuples sets and dictionaries.
* Data manipulation techniques using Python.
* Numerical data processing using numpy.
* Implementing list operations and dataset.

Weeks-7-9 :- Machine Learning fundamentals And Regression Models :-

During this phase students were introduced to machine learning concepts and Predictive modeling techniques.

Topics included :

* Fundamentals of machine learning and statistical learning models.
* Supervised learning concepts.
* Linear regression models for prediction.
* Polynomial Regression for modeling non-linear relationships.

Weeks 10-12 : Unsupervised Learning, Natural Language Processing and SI systems :-

This Phase focused on advanced AI techniques and system architecture concepts.

* K-means clustering for supervised learning.
* Data segmentation and Cluster visualization
* Isolation classification using logistic regression.
* Chatbot architecture for conversational systems.
* Short term memory in AI systems.
* Long term memory structures.

Weeks 13-15 :- Final Project - chatbot Development using AI :-

This final stage of the internship focused on deploying an AI based chatbot application.

Key activities included :

* Understanding large language model architecture.
* Learning Prompt engineering techniques.
* Implementing system prompts and knowledge base integration.
* Developing a chatbot using Python and google generative AI API.
* Designing a web-based chatbot interface using gradio.

The chatbot system was developed to :

* Answer Product-related queries.
* Provide troubleshooting information.
* Guide users to Purchase Products through the official website.
* Respond Professionally based on the Provided knowledge base.

Tasks Performed & Responsibilities

Major tasks included:

* Writing Python Programs for data manipulation and algorithm implementation.
* Implementing regression models for predictive analysis.
* Applying clustering algorithms and dataset preparation.

Skills Required / Acquired :-

The internship provided practical exposure to multiple technical and analytical skills.

AI Fundamentals :-

Understanding AI concepts including reasoning system, machine learning models and AI architectures.

Python Programming for AI :-

Proficiency in Python Programming including data structures, loops, conditional logic and algorithm development.

AI System Development :-

Designing and deploying an AI chatbot application using modern AI APIs.

Reflection :-

The internship provided a comprehensive learning experience in AI and machine learning technologies. The structured training approach enabled a gradual progression from theoretical foundations to practical implementation of AI systems.

Overall the internship significantly enhanced technical competency in AI and provided exposure to modern AI tools and development framework.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to Artificial Intelligence	understanding the concept definition and importance of AI	
Day - 2	Evolution and History of Artificial Intelligence.	Learning major milestones in AI development	
Day - 3	Branches of Artificial Intelligence	Understanding Machine Learning NLP, Computer vision and Robotics	
Day - 4	Scope and Applications of Artificial Intelligence	Exploring real-world AI applications in healthcare, finance, automation.	
Day - 5	Introduction to Large Language Models and AI systems.	understanding how modern AI models generate responses	
Day -6	Practical session: Exploring AI systems and Prompting Styles	Practicing different prompting approaches using AI tools	

WEEKLY REPORT

WEEK – 1 (From Dt. 1-12-25 to Dt. 6-12-25)

Objective of the Activity Done: To introduce the fundamental concepts of AI its historical development, major branches, real-world applications

Detailed Report: During the first week of the internship the training program began with an introduction to AI and its importance in modern computing systems. Students were introduced to the definition of AI and how intelligent machines simulate human reasoning decision making process.

The historical evolution of AI was discussed highlighting major milestones in the development of intelligent computing technologies. Students learned about different branches of AI including machine learning, Natural language Processing, Computer vision and Robotics.

The scope and applications of AI were explored through examples from healthcare, finance, automation and data analysis. Students were also introduced to modern AI technologies such as large language Models and their capabilities in natural language generation. A practical session was conducted where students experimented with AI systems and observed how different prompting styles.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to logical Reasoning.	Understanding the importance of reasoning in intelligent.	
Day - 2	Aristotle's formal logic and syllogisms.	Learning classical logical reasoning structures.	
Day - 3	Deductive Reasoning and logical validity	understanding how conclusions are derived from logical premises.	
Day - 4	sound vs unsound Reasoning	Identifying valid and invalid logical arguments.	
Day - 5	Logical consistency in decision making.	understanding how reasoning influences rational decisions.	
Day - 6	Translating logical Reasoning into Rule Based systems.	Applying logical rules in computational decision systems	

WEEKLY REPORT

WEEK – 2 (From Dt. 8-12-25 to Dt. 13-12-25)

Objective of the Activity Done: To understand the functions of human reasoning and the role of logical

Detailed Report: The 2nd week focused on the study of logical reasoning which forms the conceptual foundation for intelligent systems. Students were introduced to Aristotle's formal logic and syllogistic reasoning which represent one of the earliest structured approaches to reasoning.

The concept of deductive reasoning was explored demonstrating how logical conclusions can be derived from given premises.

The difference b/w sound and unsound was also discussed. This helped students understand that valid logical reasoning requires both concept premises and correct logical structure.

The week concluded with exercises that demonstrated how logical reasoning can be translated into computational rule structures used in early AI systems.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to Python Programming for AI	Understanding Python as a programming language used in AI	
Day - 2	Conditional statements in Python	Learning decision making structures in programming	
Day - 3	Loop structures in Python	understanding iterative processes and repetition	
Day - 4	Algorithmic thinking and Problem solving	Learning logical problem solving using pseudo coding	
Day - 5	Practical coding exercises on Python	writing programs using loops and conditions.	
Day - 6	Program lab - Python implementation practice	practicing and debugging Python programs	

WEEKLY REPORT

WEEK – 3 (From Dt. 15-12-25 to Dt. 20-12-25)

Objective of the Activity Done: To introduce Python Programming fundamentals required for AI

Detailed Report: During the third week of the internship students were introduced to Python Programming which is widely used for AI and machine learning applications.

Students learned about conditional statements and how they are used to implement decision making logic in programs. Loop structures were also introduced to demonstrate.

The concept of algorithmic thinking was emphasized to help students understand how programming can be used to solve computational logically. Several programming exercises were conducted to strengthen students understanding of loops conditions and logical operators.

The week concluded with a programming lab session where students practiced writing Python programs and debugging common coding errors.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to Python data structures lists	understanding list operations and data storage.	
Day - 2	Tuples and immutable data structures	Learning data integrity using tuples.	
Day - 3	sets and set operations	Performing union intersection and different operations.	
Day - 4	Dictionaries and key-value data representation.	understanding structured data storage.	
Day - 5	Practical exercises on Python data structures.	Implementing data structure operations.	
Day - 6	Program lab - Python data structure implementation.	Practicing data set representation using Python structures.	

WEEKLY REPORT

WEEK – 4 (From Dt. 22-12-25 to Dt. 27-12-25)

Objective of the Activity Done: To develop an understanding of Python data structures and their role

Detailed Report: This week focused on Python data structures including lists, tuples, sets and dictionaries. Students learned how structured data can be stored, accessed and manipulated using these data structures. Practical exercises were conducted to implement operations such as adding elements, removing elements and retrieving values using keys. These programming concepts form the foundation for handling datasets in AI and machine learning systems.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to Numpy for numerical computation.	Understanding array-based numerical processing.	
Day - 2	Array creation and manipulation using Numpy.	Performing mathematical operations on arrays.	
Day - 3	Data Processing techniques for AI systems.	Preprocessing structured datasets.	
Day - 4	Data transformation and matrix operations	Understanding matrix-based computation.	
Day - 5	Hands-on exercise with numpy arrays.	Implementing numerical data processing programs.	
Day - 6	Practical session - Data Processing using Numpy.	Practicing data sets manipulation techniques	

WEEKLY REPORT

WEEK – 5 (From Dt 29-12-25 to Dt 3-01-26)

Objective of the Activity Done: To learn numerical computation and data processing techniques using numpy.

Detailed Report: During this week students were introduced to the numpy library for numerical computation and data manipulation. Topics included array creation, indexing, slicing and reshaping mathematical operations on arrays. Students learned how structured datasets can be processed using numerical computation methods. Practical exercise were conducted to demonstrate how numpy is used in preparing database for machine learning algorithms.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to machine learning concepts.	understanding the concept of machine learning	
Day - 2	Types of machine learning algorithms	Learning supervised and unsupervised learning.	
Day - 3	statistical mapping and learning models.	Understanding Pattern recognition on data.	
Day - 4	Training data and model development.	Learning dataset training procedures.	
Day - 5	Practical assignment on machine learning concepts.	Applying ML concepts on simple programs	
Day -6	Revision and model implementation Practice.	Practising model implementation of concepts.	

WEEKLY REPORT

WEEK – 6 (From Dt 5-01-26 to Dt 10-01-26)

Objective of the Activity Done: To introduce fundamental machine learning concepts and understand AI

Detailed Report:

The week introduced the basic concepts of machine learning and its importance in AI. students learned about supervised learning and unsupervised learning techniques. The concept of statistical mapping and how machines learn patterns from database sets was explained. The process of training machine learning models using data sets also discussed. Practical assignments were conducted to reinforce theoretical concepts.

ACTIVITY LOG FOR THE SEVEN WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to linear regression.	Understanding Predictive modeling using regression.	
Day - 2	Univariate linear regression model.	Fitting regression models using one variable.	
Day - 3	Bivariate linear regression model.	Extending regression to multiple variables.	
Day - 4	Interpretation of regression coefficients.	Understanding regression algorithms in Python.	
Day - 5	Hands-on implementation of regression models.	Practicing regression slope and intercept Predictions.	
Day -6	Practical Lab - Regression model testing.	Evaluating Predictions using regression models.	

WEEKLY REPORT

WEEK – 7 (From Dt: 19-1-26 to Dt: 24-1-26)

Objective of the Activity Done: To understand linear regression models and implement predictive algorithms

Detailed Report:

The seventh week focused on regression models is used in machine learning for Prediction variables in data-sets. Univariate and bivariate regression models were implement using Python. students also learned how to interpret regression coefficients and evaluate Prediction accuracy through model testing.

ACTIVITY LOG FOR THE EIGTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to Polynomial regression.	understanding non-linear regression models	
Day - 2	Multivariate regression applications.	Learning multivariate prediction models	
Day - 3	Model evaluation and prediction accuracy	understanding prediction errors and model performance	
Day - 4	Real world applications of regression models	Exploring prediction analytics use cases.	
Day - 5	Practical coding - Polynomial regression implementation	Implementing regression models in Python	
Day - 6	Lab session - Regression analysis practice.	Practising regression algorithms with datasets.	

WEEKLY REPORT

WEEK – 8 (From Dt..26-1-26 to Dt: Dt..31-1-26)

Objective of the Activity Done: To understand Polynomial regression models and apply regression techniques

Detailed Report:

This week focused on Polynomial regression models that allow machine learning algorithms to model non-linear relationships b/w variables students implemented regression models with multiple variables and analysed prediction results. The importance of model evaluation and prediction accuracy was also discussed. Practical session involved implementing regression algorithms and testing them on datasets.

ACTIVITY LOG FOR THE NINETH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to K-means clustering	understanding unsupervised learning techniques	
Day - 2	Clusters formation and centroid calculation.	Learning data segmentation methods.	
Day - 3	Visualization of clusters.	Understanding data grouping using graphical representation.	
Day - 4	Introduction to isolation forest algorithm	Learning anomaly detection techniques.	
Day - 5	Practical coding - Clustering algorithms	Implementing clustering in Python.	
Day - 6	CAD session - Dataset clustering Practice.	Practising clustering and anomaly detection.	

WEEKLY REPORT

WEEK - 9 (From Dt 2-2-26 to Dt 7-2-26)

Objective of the Activity Done: To understand clustering algorithms and anomaly detection techniques

Detailed Report:

This week focused on unsupervised learning techniques such as clustering and anomaly detection. Students implemented the K-means clustering algorithm to group datasets based on similarity. The concept of anomaly detection using isolation forest was also introduced. Practical exercise helped students understand how clustering algorithms identify hidden patterns in datasets.

ACTIVITY LOG FOR THE TENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to natural language Processing	Understand language Processing in AI systems.	
Day - 2	Intent Classification using logistic regression.	Learning NLP classification techniques.	
Day - 3	Chatbot architecture and components	Understanding conversational AI systems.	
Day - 4	Designing Product enabling chatbots	Learning conversation ai flow design.	
Day - 5	Implementing basic chatbot logic.	Practicing chat-bot Program development	
Day -6	Practical lab- chatbot system implementation.	Building and testing chatbot responses.	

WEEKLY REPORT

WEEK - 10 (From Dt. 9-2-26 to Dt. 14-2-26)

Objective of the Activity Done: To understand natural language processing concepts implement basic chatbot

Detailed Report:

The tenth week introduced Natural language Processing and chatbot systems. students learned how AI systems interpret user queries and classify user intentions. Logistic regression was used for intent classification. Students also designed a chatbot capable of handling Product enquiries and complaint registration. Practical sessions focused on implementing chatbot logic and testing conversational responses.

ACTIVITY LOG FOR THE ELEVENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Short-term Memory in AI systems	Understanding temporary information storage	
Day - 2	Long-term Memory in AI systems	Learning knowledge retention in AI models.	
Day - 3	Knowledge Base systems	understanding structured knowledge storage	
Day - 4	AI Decision Making systems	understanding reasoning systems in AI	
Day - 5	Case study - AI medical diagnostic systems	Learning real-world AI applications.	
Day -6	Lab session - knowledge base design.	Practicing knowledge representation techniques.	

WEEKLY REPORT

WEEK - 11 (From Dt 16-2-26 to Dt 21-2-26)

Objective of the Activity Done: To understand AI system architecture including memory systems

Detailed Report:

This week focused on cognitive architecture used in AI systems. students studied short-term and long-term memory mechanisms used in AI models to store and retrieve information. A case study on AI based medical diagnostic systems demonstrated how AI models can assist in healthcare decision-making.

ACTIVITY LOG FOR THE TWELVETH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	foundation of generation AI	understanding generative models and LLM concepts	
Day - 2	Large language model architecture	Learning tokenization context windows and inference	
Day - 3	Prompt engineering techniques	understanding system Prompts and user Prompts.	
Day - 4	chatbot development using google generative AI	Implementing AI Powered chatbot systems	
Day - 5	Deploying chatbot using gradio	Understanding AI system deployment.	
Day -6	Practical lab - chatbot testing and debugging	testing chatbot response and system functionality.	

WEEKLY REPORT

WEEK - 12 (From Dt 23-2-26 to Dt 28-2-26)

Objective of the Activity Done: To understand generative AI and develop a chatbot system using AI

Detailed Report:

During this week, students were introduced to generative AI and large language models. Concepts such as tokenization, context windows, prompt engineering and model parameters were explained. Students learned how system prompt guide AI model responses. A generative AI chatbot was implemented using the Google generative AI platform and deployed using the gradio framework. Practical sessions focused on testing chatbot responses and debugging system behaviors.

ACTIVITY LOG FOR THE THIRTEENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to final Project - AI chatbot development	Understanding Project objectives and system architecture.	
Day - 2	Designing chatbot system structure.	Learning how conversational AI systems are structured.	
Day - 3	Creating knowledge base for chatbot.	Organizing domain specific information for AI	
Day - 4	Implementing chatbot using Python and generative AI	Integrating AI model with application code.	
Day - 5	Developing conversational flow and Prompt engineering.	Designing Prompts to guide AI responses.	
Day -6	Practical lab- chatbot implementation and testing.	Testing chatbot interaction and response quality.	

WEEKLY REPORT

WEEK – 13 (From Dt 2-3-26 to Dt 7-3-26)

Objective of the Activity Done: To design and implement an AI chatbot system using generative AI.

Detailed Report: During this week students began working on the final Project titled "chatbot Development using AI". The Project focused on developing a conversational AI system capable of responding to user queries using a structured knowledge base.

Students first studied the architecture of chatbot systems, including user input Processing, AI model interaction and response generation. A domain specific knowledge base was created to provide contextual information to the AI model.

The week concluded with practical sessions where students tested the chatbot system and evaluation its conversational capabilities.

ACTIVITY LOG FOR THE FOURTEENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Designing chatbot interface using gradio.	understanding web interface development for AI systems	
Day - 2	Integrating AI model with user interface.	connecting chatbot backend with interactive interface.	
Day - 3	Testing chatbot responses and debugging.	Identifying and resolving system issues	
Day - 4	Improving response accuracy using Prompt engineering.	Enhancing chatbot interaction quality.	
Day - 5	Preparing Project documentation.	covering technical documentation for the project.	
Day -6	Practical lab - Final system testing.	validating chatbot functionality performance.	

WEEKLY REPORT

WEEK – 14 (From Dt. 9-3-26 to Dt. 14-3-26)

Objective of the Activity Done: To deploy the AI chatbot system test its functionality

Detailed Report:

This week focused on the deployment and testing of the chatbot system developed in the previous week. Students implemented a web-based interface using the gradio framework, enabling users to interact with the chatbot through a conversational interface.

The chatbot backend was connected to the generative AI model, allowing real-time response generation. Students performed several rounds of testing to evaluate the chatbot's accuracy and responsiveness.

Prompt engineering techniques were refined to improve response quality and ensure that the chatbot provided relevant information on the knowledge base.

ACTIVITY LOG FOR THE FIFTEENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Final testing of AI chatbot system.	Ensuring system reliability and accuracy.	
Day - 2	Performance evaluation of chat bot responses.	Assessing chatbot response quality.	
Day - 3	Preparing Project Presentation.	Organizing Project Working and demonstration.	
Day - 4	Logbook completion and documentation review.	Finalizing internship documentation.	
Day - 5	Project demonstration and evaluation.	Presenting chat bot system and explaining.	
Day -6	Internship review and feedback session.	Reflecting on learning outcomes and technical.	

WEEKLY REPORT

WEEK - 15 (From Dt 16-3-26 to Dt 21-3-26)

Objective of the Activity Done: To evaluate the chatbot system, complete internship documentation

Detailed Report:

The final week of the internship focused on evaluating the completed chatbot system and preparing the final project presentation. Students conducted extensive testing to ensure that the responses accurately and consistently to user queries.

Performance evaluation involved analyzing the relevance and clarity of chatbot responses. Students reviewed the overall system architecture and ensure that all components of the project functional correctly.

The internship concluded with a review session where feedback was provided on the project implementation and overall learning experience.

Outcomes Description

Work Environment Experience:-

The internship was conducted in an online learning environment organised by Anganas foundation where students participated in structured training sessions focused on AI and machine learning technologies. Although the internship was conduct remotely, the learning environment was highly interactive and collaborative.

The training sessions were conducted through scheduled online classes, discussions, and practical programming exercises students interacted regularly with faculty members and fellow participants during lectures project discussions and problem solving sessions.

The program maintained a disciplined and structured schedule with classes conducted on weekdays and practical sessions organized for session revision and implementation of learned concepts. Clear guidence were provided regarding assignments project work and documentation requirements.

Real - Time Technical Skills Acquired :-

During the internships students gained practical exposure to several technologies related to AI and data science.

One of the primary technical skills acquired Python Programming for AI applications. Students learned how to write structured programs using conditional statements, loops, functions. Python data structures such as lists, tuples, sets and dictionaries were also used to manage data effectively.

Students gained hands-on experience in data processing and numerical computation using the numpy library. This helped them understand how numerical datasets are processed and prepared for machine learning models.

Through these activities students gained real-world technical experience in AI intelligence system development.

Managerial Skills Acquired :-

In addition to technical skills, the internship also helped students develop several managerial and professional competencies.

Students learned how to plan and organize tasks effectively while working on programming assignments and project development activities. The structured weekly schedule encouraged to allocate time efficiently for learning theoretical concepts, implementing and completing project documentation.

Students also developed analytical thinking and problem-solving abilities while debugging code, analyzing machine learning model outputs and improving chatbot responses.

Overall the internship helped students develop professional habits such as discipline time management and systematic problem solving.

Communication Skills Development :-

The internship contributed significantly to the improvement of communication skills in both written and verbal forms.

Students regularly participated in discussions during training sessions, where they asked questions, clarified concepts and shared ideas related to AI technologies. These interactions improve their confidence in expressing technical concepts and engaging in academic discussions.

Students also developed professional communication habits such as maintaining respectful interactions, acknowledging feed-back, and expressing appreciation for guidance received during the training.

Participation in Team Discussions and Collaborative Learning :-

Although the internship was conducted online collaborative learning played an important role in the training process. Students frequently participated in discussions related to programming challenges machine learning concepts, AI applications.

Group discussions enabled participants to explore different approaches to solving computational problems. Students also exchanged programming ideas debugging techniques and strategies for improving machine learning model performance.

Participation in discussions helped students develop teamwork skills, the ability to listen to different viewpoints and the confidence to contribute their own ideas in a group settings.

Technological Developments observed During the Internship :-

During the internship students observed several important technological developments in the field of AI and data science.

One of the most significant development is the rapid advancement of generative AI and large language models. These models have the capacity to generate human like text automate customer support systems, and assist in knowledge-based information retrieval.

Students also observed the increasing adoption of cloud-based AI development platforms such as google-colab which allow developers to build and test machine learning models without requiring high-performance local hardware.

These developments demonstrate how AI technologies are rapidly transforming industries and creating new opportunities for innovation and technological advancement.

Students also observed the increasing adoption of cloud-based AI development platforms such as Google Colab which allow developers to build and test machine learning models without requiring high performance local hardware.

Another important technological trend is the use of AI-powered automation in business applications, including chatbots for customer service recommendation systems in e-commerce platforms and predictive analytics in healthcare.

The internship also highlighted the importance of prompt engineering and knowledge based AI systems which combines structured information with generative models to improve the accuracy and relevance of AI responses.

Conclusion :-

The AI internship provided valuable exposure to both the theoretical foundations and practical applications of AI technologies. Throughout the program students progressed from understanding basic AI concepts and logical reasoning to implementing ML models and developing conversational AI systems. Hands-on training in Python ML algorithms data processing and generative AI tools used enabled students to gain practical experience in building intelligent systems.

The final project "chatbot Development using AI" demonstrated the integration of generative AI models with a knowledge bases to create a functional conversational chatbot.

Overall the internship strengthen technical skills analytical thinking and problem solving abilities while providing practical insight into modern AI development and its real-world applications.

Student Self Evaluation of the Long-Term Internship

Student Name: Thippana Premkumar
Registration No: 236030865016

Term of Internship: From: 24-11-2025 To: 31-03-2026

Date of Evaluation:

OrganizationName&Address: Anjanaa's Foundation, Avanigadda/Hyderabad.

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	Pro activeness	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**

T. Premkumar
Signature of the Student

Date:

Evaluation by the Supervisor of the Intern Organization

Student Name:
Thippana Premkumar

Registration No: 236030865016

Term of Internship: From: 24-11-2025 **To: 31-03-2026**

Date of Evaluation:

Organization Name & Address: Anjanaa's Foundation, Avanigadda/Hyderabad

Name & Address of the Supervisor with Mobile Number Naveen

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: 1is lowest and 5 is highest rank

1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Pro activeness	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**

ANJANAA'S FOUNDATION Reg No: 4/2020,BK-4 Registered AVANIGADDA

Signature of the Supervisor

Date:

INTERNAL ASSESSMENT STATEMENT

Name of the Student: Thippana Premkumar
Programme of Study: 3rd year BSC (computer science)
Year of Study: 2026
Group: Science
Register No/H.T.No: 236030865016
Name of the College: GOVERNMENT DEGREE COLLEGE RAJAMPET
University: Yogi Vemana University

Sl. No	*Evaluation Criterion*	*Maximum Marks*	*Marks Awarded*
1.	Activity Log	10	
2.	Internship Evaluation	30	
3.	Oral Presentation	10	
	GRAND TOTAL	50	

Date:

Signature of the Faculty Guide

EXTERNAL ASSESSMENT STATEMENT

Name of the Student: Thippana Premkumar
Programme of Study: 3rd year BSC (computer science)
Year of Study: 2026
Group: Science
Register No/H.T.No: 236030865016
Name of the college: GOVERNMENT DEGREE COLLEGE RAJAMPET
University: Yogi Vemana University

Sl. No	*Evaluation Criterion*	*Maximum Marks*	*Marks Awarded*
1.	Internship Evaluation	80	
2.	For the grading giving by the Supervisor of the Intern Organization	20	
3.	Viva-Voce	50	
	TOTAL	150	
GRAND TOTAL (EXT.50M+INT.100M)		**200**	

Signature of the Faculty Guide

Signature of the Internal Expert

Signature of the External Expert

Signature of the Principal with Seal

Principal
GOVT. DEGREE COLLEGE,
Rajampet, Kadapa Dist.-516115

Anjanaas Foundation offers internships that can help you grow professionally and personally.

ANJANAAS
FOUNDATION

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(A Statuory Body of the Government of Andhra Pradesh)
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