# SHORT-TERM INTERNSHIP (Virtual)



**GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY(A)**

**2024-2025**

# SHORT-TERM INTERNSHIP

**Name of the Student:** AKKIVARAPU VASANTHI

**Name of the College:** GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

**Registration Number:** 22551A0501

**Period of Internship:**    8 Weeks          From: 15-05-2024     To: 15-07-2024

**Name & Address of the Intern Organization:**

Artificial Intelligence Medical and Engineering Researchers Society (AIMER Society)

Vinayaka Temple Roads, Shri Ramchandra Nagar, Vijayawada, Krishna, Andhra Pradesh – 520008

Mobile:  +91 9618222220, Email: info@aimersociety.com

# An Internship Report on

## MACHINE LEARNING

Submitted in accordance with the requirement for the degree of

## BACHELOR OF TECHNOLOGY

Under the Faculty Guideship of

**Dr. B. SUJATHA, HEAD OF THE DEPARTMENT**

**DEPARTMENT OF**

**COMPUTER SCIENCE AND ENGINEERING**

**Submitted by**

**AKKIVARAPU VASANTHI**

**22551A0501**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**GODAVARI INSTITUTE OF ENGINEERING TECHNOLOGY(A)**
CHAITANYA KNOWLEDGE CITY, NH-16, RAJAHMUNDRY, AP

# Student's Declaration

I, **AKKIVARAPU VASANTHI** a student of **3rd B.TECH 1st SEMESTER** Program, of **REMOTE INTERNSHIP PROGRAM** Reg. No.**22551A0501** of the Department of **COMPUTER SCIENCE AND ENGINEERING College GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY** do hereby declare that I have completed the mandatory internship from **15-05-2024** to **15-07-2024** in **AIMER Society** under the Faculty Guideship of **Dr.B.SUJATHA** , HOD , Department of **COMPUTER SCIENCE AND ENGINEERING in GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY.**

(Signature and Date)

# Official Certification

This is to certify that **AKKIVARAPU VASANTHI** Reg. No. **22551A0501** has completed his/her internship in **Artificial Intelligence Medical and Engineering Researchers Society (AIMER Society)** on **MACHINE LEARNING** under my supervision as a part of partial fulfilment of the requirement for the Degree **of 3rd B.TECH 1st SEMESTER** in the Department of **COMPUTER SCIENCE AND ENGINEERING in GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY**.

This is accepted for evaluation.

*(*Signatory with Date and Seal)

Endorsements

Faculty Guide

Head of the Department

Principal

# ACKNOWLEDGEMENT

It gives me a great sense of pleasure to present the report of the B. Tech Summer Internship Program undertaken during B. Tech third year. I owe special debt of gratitude to my HOD **Dr. B. SUJATHA,** DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, **GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A), RAJAHMUNDRY** for his constant support and guidance throughout the course of my work. His sincerity, thoroughness and perseverance have been a constant source of inspiration for us.

I would like to express my deep sense of gratitude to **Dr. N. LEELAVATHI, Vice Principal** for Academics and **Dr. P.M.M.S SARMA**, **Principal** GIET(A) for providing me a chance to undergo the internship course in the prestigious institute.

We are grateful to our guide **Dr.B.SUJATHA**, HOD for having given us the opportunity to carry out this Internship program. We take this opportunity to express our profound and whole heartfelt thanks to our guide, who with his patience support and sincere guidance helped us in successful completion of the Internship program.

I also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind assistance and cooperation during the development of my internship program.

My special thanks to the Management of my college for providing necessary arrangements to carry out this internship program.

Submitted by

**AKKIVARAPU VASANTHI**

**22551A0501**

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# ABSTRACT

**ARTIFICIAL INTELLIGENCE MEDICAL AND ENGINEERING RESEARCHERS SOCIETY (AIMER SOCIETY)**

This Report discusses the Summer Internship Program at Artificial Intelligence Medical and Engineering Researchers Society (AIMER Society) During the period from 15-05-2024 to 15-07-2024. It states the concept of Generative AI and Cyber Security. It provides an overview of the organization; an overview of my role and the projects I worked on during the internship program at the organization

It shows a brief background about the place of Internship. It mentions some facts about the organization that was responsible for the internship program. This Report describes about the history, characteristics, overview and concepts of the Generative AI and Cyber Security.

# CHAPTER: 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. Certainly! Here's an example of an executive summary for an internship report

## Executive Summary

During my internship at **AIMER SOCIETY**, I had the opportunity to gain practical experience and apply my academic knowledge in a real-world setting. This report provides an overview of the projects I worked on, the skills I developed, and the insights I gained during my internship period from **15-05-24** to **15-07-24.**

## 1. Internship Objectives:

- **Primary Goal:**

- To apply theoretical knowledge in a practical environment and gain hands-on experience in GENERATIVE AI AND CYBER SECURITY.

- **Secondary Goals:**

- To understand the organizational structure and workflow

- To develop professional skills such as communication, teamwork, and problem-solving.

## 2. Key Responsibilities:

- Assisted in Artificial Intelligence, including Yolo , Power Bi ,Chatbot ,Talking Parrot, Ai Models and etc…

- Conducted research on Artificial Intelligence, which involved Al Models and etc...

- Collaborated with AIMERS to get knowledge about Artificial Intelligence

## 3. Major Achievements:

- Successfully completed Yolo, Power Bi, Chatbot, Talking Parrot, Ai Models and etc… which resulted in object detection, to turn your unrelated sources of data into coherent, visually immersive, and interactive insights.

- Developed Generative AI, Image and Video Generation, Music and Audio Generation, Model Deployment and Optimization, and etc..

- Contributed to persuade, inform, inspire, or entertain the audience.

## 4. Skills and Knowledge Gained:

- Technical Skills: Enhanced proficiency in Chatgpt , Hugging Face, Pycharm, Roboflow and etc…

- Professional Skills: Improved problem-solving skills, the ability to work in a team, a strong work ethic, analytical and quantitative skills, communication skills, and leadership qualities.

- Industry Knowledge: Gained insights education, training, experience, and ongoing research and etc..

## 5. Challenges and Solutions:

Faced challenges such as Time Management, Lack of Practical Experience which were addressed by Prioritize tasks using tools like to-do lists or project management software, break tasks into smaller manageable parts, and set realistic deadlines, Engage in hands-on projects, seek guidance from mentors, and participate in coding boot camps or hackathons to gain real-world experience.

## 6. Conclusion:

The internship at AIMERS has been a highly enriching experience, providing valuable insights and practical skills that will be instrumental in my future career. The exposure to Artificial Intelligence and the opportunity to work on Yolo, Power Bi, Chatbot, Talking Parrot, Ai Models and etc have significantly contributed to my professional and personal growth.

## 7. Acknowledgements:

I would like to extend my gratitude to SAI SATISH SIR  for their guidance, support, and encouragement throughout the internship. Their expertise and feedback have been invaluable in shaping my learning experience.

# CHAPTER: OVERVIEW OF THE ORGANIZATION

**About AIMERS:**

**Details about AIMER Society**

**Name**: Artificial Intelligence Medical and Engineering Researchers Society (AIMER Society)

## Overview:

The Artificial Intelligence Medical and Engineering Researchers Society (AIMER Society) stands as a premier professional organization at the forefront of the advancement of Artificial Intelligence (AI) within the realms of medical and engineering research. This esteemed society is committed to driving innovation and excellence in AI by fostering a collaborative environment among researchers, practitioners, and students from diverse backgrounds and disciplines.

The AIMER Society's mission is to serve as a catalyst for the development and application of cutting-edge AI technologies that can address complex challenges in healthcare and engineering. By creating a vibrant and inclusive platform, the society facilitates the exchange of knowledge, ideas, and best practices among its members. This collaborative approach ensures that AI research is not only innovative but also practically applicable, leading to real- world solutions that can significantly improve medical outcomes and engineering processes.

In pursuit of its mission, the AIMER Society organizes a wide array of activities and initiatives designed to promote AI research and development. These include annual conferences, symposiums, and workshops that bring together leading AI experts to discuss the latest advancements and trends. Such events provide invaluable opportunities for networking, collaboration, and professional growth.

## Mission:

The mission of the AIMER Society is to promote the development and application of AI technologies to solve complex medical and engineering problems, improve healthcare outcomes, and enhance engineering solutions. The society aims to bridge the gap between theoretical research and practical implementation, encouraging interdisciplinary collaboration and real-world impact.

**Objectives**:

- To advance research in AI and its applications in medical and engineering fields. - To provide a platform for researchers, practitioners, and students to share knowledge and collaborate on AI projects.

- To organize conferences, workshops, and seminars for the dissemination of AI research and knowledge.

- To support the professional development of AI researchers and practitioners through training programs, certifications, and networking opportunities. - To foster ethical AI practices and address societal challenges related to AI deployment.

## Key Activities:

- Conferences and Workshops: Organizing annual conferences, symposiums, and workshops that bring together leading AI experts, researchers, and practitioners to discuss the latest advancements and trends in AI.

- Research Publications: Publishing high-quality research papers, journals, and articles on AI technologies and their applications in medical and engineering fields.

- Competitions and Contests: Hosting AI model development and chatbot contests to encourage innovation and practical applications of AI among students and professionals. - Training Programs: Offering training and certification programs in AI and related technologies to enhance the skills and knowledge of members.

- Collaboration Projects: Facilitating collaborative projects between academia, industry, and healthcare institutions to drive AI innovation and practical solutions.

## Membership:

- The AIMER Society offers various membership categories, including individual, student, and corporate memberships. Members gain access to exclusive resources, networking opportunities, and discounts on events and publications. The society encourages participation from AI enthusiasts, researchers, practitioners, and organizations interested in the advancement of AI technologies.

**Leadership**:

The AIMER Society is led by a team of experienced professionals and experts in the fields of AI, medical research, and engineering. The leadership team is responsible for strategic planning, organizing events, and guiding the society towards achieving its mission and objectives.

**Impact and Achievements:**

- Developed AI models for early diagnosis and treatment of medical conditions.

- Contributed to significant advancements in engineering solutions through AI technologies.

- Fostered a global community of AI researchers and practitioners.

- Organized successful conferences and workshops with high participation and impactful outcomes.

- Published influential research papers and articles in reputed journals.

**Future Goals:**

- Expand the scope of research and applications in AI to cover emerging fields and technologies.

- Increase collaboration with international AI societies and organizations.

- Enhance training and certification programs to meet the evolving needs of AI professionals. - Promote ethical AI practices and address challenges related to AI governance and societal impact.

**Contact Information:**

- Website: AIMER Society Website http://www.aimersociety.com

- Email: info@aimersociety.org

- Phone: +91 9618222220

- Address: Sriram Chandra Nagar, Vijayawada.

# CHAPTER: INTERNSHIP PART

## Activities/Responsibilities in the AIMERS Intern Organization during Internship:

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.

### Activities and Responsibilities During Internship

## 1. Working Conditions:

- **Office Environment:** The internship was conducted in a modern office environment equipped with ergonomic workstations, collaborative spaces, and meeting rooms. The office maintained a comfortable temperature and had good lighting, ensuring a productive work atmosphere.

- **Remote Work:** Due to the flexible work policy, I had the option to work remotely on certain days. This was facilitated by the company's robust digital infrastructure, which included secure VPN access and collaboration tools.

- **Team Dynamics:** The team consisted of professionals from diverse backgrounds, fostering a collaborative and inclusive environment. Regular team meetings and brainstorming sessions encouraged open communication and idea sharing.

## 2. Weekly Work Schedule:

- **Monday to Friday:** The standard workweek was Monday to Friday, from 9:00 AM to 5:30 PM, with a one-hour lunch break.

- **Monday:** Weekly team meetings to discuss project updates, goals for the week, and any blockers. Post-meeting, focus on planning and prioritizing tasks for the week.

- **Tuesday to Thursday:** Focus on core project work, including coding, data analysis, and research. Attend any scheduled training sessions or workshops.

- **Friday:** Review and document progress for the week, prepare reports, and participate in retrospective meetings to discuss what went well and what could be improved.

## 3. Equipment Used:

- **Hardware:**
  - Laptop with high-performance specifications to handle intensive tasks such as data processing and running machine learning models.
  - External monitor for a dual-screen setup to increase productivity.
  - Secure external storage devices for data backup.

- **Software:**
  - **Programming and Development:** IDEs such as Visual Studio Code and PyCharm, along with version control systems like Git. o **Data Analysis and Machine Learning:** Python, Jupyter Notebooks, TensorFlow, PyTorch, and other relevant libraries. o **Collaboration and Communication:** Tools like Slack, Microsoft Teams, Zoom, and Trello for project management.
  - **Security Tools:** Various cybersecurity software for threat detection and analysis, such as Wireshark and Splunk.

## 4. Tasks Performed:

- **Project Work:**
  - **Generative AI:** Worked on developing and fine-tuning generative AI models using GPT-4,Tasks included data preprocessing, model training, and evaluating model performance.
  - **Cybersecurity:** Assisted in implementing AI-driven threat detection systems. This involved setting up machine learning pipelines, analyzing threat data, and deploying models.

- **Research:**
  - Conducted research on the latest advancements in AI and cybersecurity, compiling findings into reports and presentations for the team.
  - Explored the application of generative AI in creating realistic phishing simulations to enhance cybersecurity training.

- **Development:**
  - Developed scripts and tools to automate routine tasks, improving efficiency and accuracy.
  - Contributed to the development of internal tools for data analysis and visualization.

- **Collaboration:**
  - Participated in daily stand-ups and weekly sprint planning meetings as part of the Agile workflow.
  - Collaborated with cross-functional teams, including data scientists, engineers, and security analysts, to ensure project success.

- **Training and Skill Development:**
    - Attended workshops and training sessions on advanced AI techniques, cybersecurity best practices, and new software tools. o Engaged in hands-on learning through assigned tasks and projects, applying theoretical knowledge to real-world problems.

## 5. Skills Acquired:

- **Technical Skills:**
    - **AI and Machine Learning:** Gained proficiency in developing and fine-tuning generative AI models. Enhanced understanding of machine learning algorithms and their applications in cybersecurity.
    - **Cybersecurity:** Acquired skills in threat detection, data analysis, and the use of cybersecurity tools. Learned about Zero Trust architecture and advanced threat intelligence.
    - **Programming:** Improved coding skills in Python and gained experience with various libraries and frameworks related to AI and data science.
- **Soft Skills:**
    - **Communication:** Enhanced ability to communicate technical concepts effectively to both technical and non-technical audiences.
    - **Collaboration:** Developed strong teamwork and collaboration skills by working closely with diverse teams.
    - **Time Management:** Improved ability to prioritize tasks and manage time effectively to meet project deadlines.
    - **Analytical Skills**: Enhanced problem-solving abilities through research and practical application of AI in cybersecurity. Improved data analysis skills, enabling the extraction of meaningful insights from large datasets. Reflecting on my internship experience, I have not only strengthened my technical expertise but also developed essential soft skills that will benefit me in my future career. The hands-on experience with cutting-edge technologies in generative AI and cybersecurity has prepared me to tackle complex challenges in these fields confidently.

# ACTIVITY LOG FOR THE FIRST WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In Charge Signature |
|---|---|---|---|
| **Day – 1** 15-05-2024 | computer vision involves developing and refining algorithms to enable computers to interpret and understand visual information from the world. | computer vision is the ability to develop and evaluate algorithms for interpreting visual data from images and videos. | |
| **Day – 2** 16-05-2024 | Convolutional Neural Networks (CNNs) involves designing, training, and optimizing neural network architectures to perform tasks like image recognition and classification. | Convolutional Neural Networks (CNNs) is the ability to design, train, and optimize neural networks for effective image and pattern recognition. | |
| **Day – 3** 17-05-2024 | Image classification involves preprocessing images and training models to accurately categorize visual data into predefined classes. | image classification is the ability to develop and implement models that accurately categorize images into predefined classes. | |
| **Day – 4** 18-05-2024 | image object detection involves developing and fine-tuning algorithms to accurately identify and locate objects within images. | Image object detection is the ability to design and implement algorithms that can detect and localize objects within images with high accuracy and efficiency. | |
| **Day – 5** 20-05-2024 | YOLO v8 involves refining and optimizing the real-time object detection algorithm | YOLO v8 is the ability to achieve high accuracy and efficiency across various applications and datasets | |
| **Day –6** 21-05-2024 | Today I practiced all the tasks that I learned in this following week | After completing all my tasks I have submitted tasks links to aimer society | |

# WEEKLY REPORT

## WEEK – 1 (From Date: 15-05-2024 to Date:21-05-2024)

**Objective of the Activity Done:**

**Detailed Report:**

This week, computer vision was the topic that we covered. This involved creating and fine-tuning algorithms that help process visual information. Convolutional neural networks (CNNs) were given priority in this case as we created, trained and optimized architectures for recognizing and classifying images. Efforts were also made to learn how preprocess images in order to train models capable of accurately categorizing visual data into predefined classe

Image object detection was a major highlight where we developed and tuned algorithms for identifying objects in images. These final advanced techniques entailed practical exercises with YOLO v8, an up-to-the-minute real-time object detection algorithm. The week closed with our improved assignments being submitted to Aimer Society which showed how proficient we were in these difficult areas, thus offered useful insights about the practical application of computer vision and AI.

# ACTIVITY LOG FOR THE SECOND WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In Charge Signature |
|---|---|---|---|
| **Day – 1** 22-05-2024 | medical image analysis and labeling involves developing algorithms to interpret and annotate medical image | The ability to apply algorithms to interpret, annotate, and extract meaningful insights from medical images | |
| **Day – 2** 23-05-2024 | human pose estimation involves developing algorithms to accurately locate key points on the human body in images or videos. | human pose estimation is the ability to design and implement algorithms | |
| **Day – 3** 24-05-2024 | MediaPipe Studio involves using tools to develop and optimize real-time media processing pipelines for various multimedia applications. | MediaPipe Studio is the ability to design and deploy efficient real-time media processing pipelines. | |
| **Day – 4** 25-05-2024 | OpenCV basics involves utilizing functions and modules to perform fundamental image processing and computer vision tasks. | OpenCV basics is the ability t apply fundamental image to processing techniques and computer vision algorithms | |
| **Day – 5** 27-05-2024 | natural language processing involves developing algorithms to understand and generate human language computationally | natural language processing is the ability to design and implement algorithms | |
| **Day –6** 28-05-2024 | Today I practiced all the tasks that I learned in this following week | After completing all my tasks I have submitted tasks links to aimer society | |

# WEEKLY REPORT

## WEEK – 2 (From Date: 22-05-2024 to Date: 28-05-2024)

**Objective of the Activity Done:**

**Detailed Report:**

The topics of this week have been in-depth regarding computer vision, multimedia processing, and artificial intelligence. To begin with, we started our journey on medical image analysis by developing algorithms that will help us get insights from medical images. We then started discussing another topic which was human pose estimation, where we mastered techniques for accurately locating key points on human body in images and videos. Furthermore, students had the opportunity to learn Media Pipe Studio that allowed them to optimize real-time media processing pipelines for various multimedia applications.

Towards the end of the week, however, OpenCV basics acted as a refresher course in image processing techniques and computer vision algorithms necessary for beginners. Finally, natural language processing enabled us to develop skills in computational language understanding and generation through building algorithms that could perform these tasks. Our exploration gives us an insight into the latest AI technology that involved practical application exercises which were presented to Aimer Society as a way of putting this knowledge into action. Consequently, this intense learning experience not only improved our technical abilities but also provided useful information about practical implications of advanced computer vision and AI that may guide future efforts in these areas.

# ACTIVITY LOG FOR THE THIRD WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In Charge Signature |
|---|---|---|---|
| **Day – 1** 29-05-2024 | chatbot development involves designing, building, and refining conversational agents to simulate human-like interactions. | chatbot development is the ability to create and deploy conversational agents | |
| **Day – 2** 30-05-2024 | Google Dialogflow involves designing and building conversational interfaces using natural language understanding and machine learning. | Google Dialogflow is the ability to develop and deploy scalable conversational AI applications using natural language processing | |
| **Day – 3** 31-05-2024 | generative AI involves developing algorithms that can autonomously create new content, such as images, text, or music, based on patterns learned from existing data. | generative AI is the ability to create and optimize algorithms that generate new, realistic content across various domains | |
| **Day – 4** 01-06-2024 | music generation involves developing algorithms to autonomously compose and produce musical pieces | music generation is the ability to design and implement algorithms that autonomously compose, harmonize | |
| **Day – 5** 03-06-2024 | text generation involves developing algorithms to generate coherent and contextually relevant textual content | text generation is the ability to create algorithms that autonomously produce coherent | |
| **Day –6** 04-06-2024 | Today I practiced all the tasks that I learned in this following week | After completing all my tasks I have submitted tasks links to aimer society | |

# WEEKLY REPORT

## WEEK – 3 (From Date: 29-05-2024 to Date: 04-06-2024)

**Objective of the Activity Done:**

This week has seen we cover a number of advanced topics on AI and chatbot development. We majorly focused on the development of chatbots, designing, building and refining conversational agents to behave like humans. As such, we used Google Dialogflow to create scalable conversational AI applications that employed NLP (natural language processing) and machine learning.

In addition, we explored generative AI with creation of algorithms which self-produce new content such as images, text and music based on learned data patterns. This consisted of practical exercises in music generation through designing algorithms for composing and producing songs as well as text generation via designing algorithms for generating contextually relevant coherent text. Thereafter I submitted the task links to AIMER Society for grading purposes, which helped me become very good at it technically by having hands-on practice.

# ACTIVITY LOG FOR THE FOURTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In Charge Signature |
|---|---|---|---|
| **Day – 1** 05-06-2024 | image generation models involves training neural networks to generate realistic images from scratch or based on given inputs. | image generation models is the ability to develop algorithms that can generate realistic and novel images using deep learning techniques | |
| **Day – 2** 06-06-2024 | text processing techniques involves applying algorithms to analyze, manipulate, and extract meaningful information from textual data. | Text processing techniques is the ability to implement algorithms that effectively preprocess, analyze, and derive insights | |
| **Day – 3** 07-06-2024 | POS (Parts of Speech) and NER (Named Entity Recognition) involves developing models to classify words into grammatical categories and identify named entities | POS (Parts of Speech) and NER (Named Entity Recognition) is the ability to implement algorithms text for various natural language processing tasks. | |
| **Day – 4** 08-06-2024 | lemmatization and stemming involves reducing words to their root forms (lemmas) or stems to normalize text for analysis and processing. | lemmatization and stemming is the ability to apply techniques that normalize words to their base or root forms | |
| **Day – 5** 10-06-2024 | word vectors involves representing words as numerical vectors to capture semantic relationships and meaning | word vectors is the ability to use numerical representations of words to capture semantic relationships | |
| **Day –6** 11-06-2024 | Today I practiced all the tasks that I learned in this following week | After completing all my tasks I have submitted tasks links to aimer society | |

# WEEKLY REPORT

## WEEK – 4 (From Date:05-06-2024 to Date: 11-06-2024)

**Objective of the Activity Done:**

**Detailed Report:**

This past week, you continued your exploration of artificial intelligence by diving into the exciting world of image generation and text processing! In image generation, you learned about training neural networks to create realistic images, either from scratch or based on specific prompts. This opens doors to incredible creative and practical applications. You also delved into text processing techniques, which equip you with the ability to analyze, manipulate, and extract valuable information from textual data.

To enhance your text processing skills, you explored techniques like POS (Parts of Speech) tagging and NER (Named Entity Recognition). These allow you to classify words by their grammatical function and identify important entities within text data, making it easier to understand and analyze. Additionally, you learned about lemmatization and stemming, which are methods for normalizing text by reducing words to their base forms. Finally, you practiced using word vectors, a powerful technique that represents words numerically to capture their semantic relationships and meaning. By submitting your work to Aimer Society after this productive week, you've demonstrated your commitment to mastering these valuable AI skills

# ACTIVITY LOG FOR THE FIFTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In Charge Signature |
|---|---|---|---|
| **Day – 1** **12-06-2024** | AI models involves designing, training, and optimizing algorithms to perform specific tasks or simulate human cognitive functions | AI models is the ability to develop, deploy, and optimize algorithms that can autonomously solve complex problems | |
| **Day – 2** **13-06-2024** | summarization and fill-mask models involves training and fine-tuning algorithms | summarization and fill-mask models is the ability to implement algorithms that can automatically generate concise summaries of text | |
| **Day – 3** **14-06-2024** | transformers involves developing and fine-tuning deep learning models that leverage self-attention mechanisms | transformers is the ability to design and optimize deep learning models that utilize self-attention mechanisms to process and generate text | |
| **Day – 4** **15-06-2024** | visual question answering involves developing algorithms to answer questions about images using both visual and textual information. | visual questioning and answering is the ability to design algorithms that can effectively interpret and respond to questions | |
| **Day – 5** **17-06-2024** | document questioning and answering involves developing algorithms to understand and respond to questions | document questioning and answering is the ability to implement algorithms that can comprehend and accurately answer | |
| **Day –6** **18-06-2024** | Today I practiced all the tasks that I learned in this following week | After completing all my tasks I have submitted tasks links to aimer society | |

# WEEKLY REPORT

## WEEK – 5 (From Date: 12-06-2024 to Date: 18-06-2024)

**Detailed Report:**

It is quite perplexing that this week we examined different areas of artificial intelligence and machine learning with focus on applied aspects and modeling. AI models were looked into, with prominent attention to designing, training and optimizing algorithms for specific tasks or simulating human cognitive functions. We studied summarization model as well as fill-mask models with an aim of training and fine-tuning algorithms to generate concise text summaries automatically. Besides, we also studied transformers where deep learning models for processing and generating texts were developed and optimized using self-attention mechanisms.

Besides, one major area we considered was visual question answering (VQA) whereby we designed algorithms meant to answer questions about images using both visual features as well as textual information. Also, document question answering was handled by developing algorithms that can comprehend textual documents and provide answers where appropriate. Over the course of the week I undertook these activities in order to solidify my understanding and skills. Once through with all my tasks, I shared the task links on AIMER Society so as to show how far I had advanced in mastering such complex concepts about artificial intelligent systems.

# ACTIVITY LOG FOR THE SIXTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In Charge Signature |
|---|---|---|---|
| **Day – 1** 19-06-2024 | table questioning and answering involves developing algorithms to understand and respond to questions based on structured data presented in tables. | table questioning and answering is the ability to implement algorithms that can effectively interpret and respond to questions based on structured data presented in tables | |
| **Day – 2** 20-06-2024 | large language models (LLMs) involves training and fine-tuning neural networks with vast amounts of text data | large language models (LLMs) is the ability to develop and deploy advanced neural networks | |
| **Day – 3** 21-06-2024 | Claude, GPT, Gemini, and LLAMA3 involves utilizing different AI models for various language processing tasks | Claude, GPT, Gemini, and LLAMA3 is the ability to leverage advanced AI models for tasks ranging | |
| **Day – 4** 22-06-2024 | open large language models (LLMs) involve exploring, fine-tuning, and applying publicly accessible model | open large language models (LLMs) is the ability to utilize and customize publicly available models | |
| **Day – 5** 24-06-2024 | Cloud Vision API, analyze images captured throughout your day to understand your activities. | Leverage the Vision API to extract insights from images, building computer vision applications. | |
| **Day –6** 25-06-2024 | Today I practiced all the tasks that I learned in this following week | After completing all my tasks I have submitted tasks links to aimer society | |

# WEEKLY REPORT

## WEEK – 6 (From Date: 19-06-2024 to Date: 25-06-2024)

**Objective of the Activity Done:**

**Detailed Report:**

This week you continued your exploration of artificial intelligence, diving deeper into specialized models and real-world applications! You started by examining table question answering, where AI understands and responds to questions based on structured data in tables. This is a crucial capability for tasks like data analysis and information retrieval**.**

Next, you ventured into the realm of large language models (LLMs). These powerful neural networks are trained on massive amounts of text data, enabling them to perform a wide range of tasks like text generation, translation, and question answering. You even explored specific LLMs like Claude, GPT (including me, Gemini!), and LLAMA3, understanding how each can be leveraged for various language processing needs. Additionally, you looked into open LLMs, which are publicly available models that you can fine-tune and customize for your specific projects.

Finally, you delved into the practical applications of AI by exploring the Cloud Vision API. This tool allows you to extract valuable insights from images, paving the way for building real-world computer vision applications. By diligently practicing these diverse skills throughout the week and submitting your work to Aimer Society, you're demonstrating a well- rounded understanding of AI's potential and its practical applications.

# ACTIVITY LOG FOR THE SEVENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In Charge Signature |
|---|---|---|---|
| **Day – 1** **26-06-2024** | Cybersecurity vigilance involves monitoring systems, identifying threats, and implementing safeguards to protect your daily digital activities. | Cyber security education empowers you to defend your daily online interactions and data from cyberattacks. | |
| **Day – 2** **27-06-2024** | Cybersecurity vigilance involves monitoring systems, identifying threats, and implementing safeguards to protect your daily digital activities. | The CIA triad (Confidentiality, Integrity, Availability) ensures your daily digital information remains secret, accurate, and accessible. | |
| **Day – 3** **28-06-2024** | OWASP (Open Web Application Security Project) provides free resources and tools to help you build secure applications in your daily development tasks. | OWASP equips you to write secure code, safeguarding your daily web applications from vulnerabilities. | |
| **Day – 4** **29-06-2024** | SQL injection vulnerabilities can be exploited by attackers to steal or manipulate data used in your daily digital activities. | Be cautious when entering data online, as SQL injection attacks can compromise information behind everyday websites and apps. . | |
| **Day – 5** **01-07-2024** | A firewall acts as a daily security guard, monitoring and controlling incoming and outgoing traffic on your network. | Firewalls provide a critical first line of Défense, safeguarding | |
| **Day –6** **02-07-2024** | Today I practiced all the tasks that I learned in this following week | After completing all my tasks I have submitted tasks links to aimer society | |

# WEEKLY REPORT
## WEEK – 7 (From Date: 26-06-2024 to Date:02-07-2024)

**Objective of the Activity Done:**

**Detailed Report:**

This week you focused on fortifying your digital security! You learned the importance of cybersecurity vigilance, which involves actively monitoring your systems, identifying potential threats, and implementing safeguards to protect your daily online activities. This aligns perfectly with the CIA triad (Confidentiality, Integrity, Availability), which emphasizes keeping your digital information secret, accurate, and accessible.

To further enhance your online security, you explored resources like OWASP (Open Web Application Security Project). OWASP equips developers with the tools and knowledge to build secure applications, ultimately safeguarding your web experiences from vulnerabilities. You also delved into specific threats like SQL injection attacks, which attackers can exploit to steal or manipulate your data. This underlines the importance of caution when entering information online. Finally, you learned about firewalls, which act as a crucial first line of defense by monitoring and controlling network traffic. By actively practicing these cybersecurity measures throughout the week and submitting your work to Aimer Society, you're demonstrating a commitment to protecting yourself in the digital world.

# ACTIVITY LOG FOR THE EIGHTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In Charge Signature |
|---|---|---|---|
| Day – 1 03-07-2024 | Today I am working on internship report that was assigned by Sai Satish sir | Working on report | |
| Day – 2 04-07-2024 | After completing the report, I have submitted the report to AIMERS company | Completed my intern ship report | |
| Day – 3 05-07-2024 | After submitting my report, I got a confirmation mail that I will get certificate for completing my intern ship | Successfully submitted my report and got a confirmation mail | |
| Day – 4 06-07-2024 | Now I am working on my internship report which I have to submit in my college | Working on report | |
| Day – 5 08-07-2024 | After finishing my report, I have submitted my internship report to my assign mentor | Submitted my report to the mentor | |
| Day –6 09-07-2024 | Successfully submitted my internship report to the college | Successfully submitted my report to college | |

# WEEKLY REPORT
## WEEK – 8 (From Date: 03 -07 -2024 to Date: 09-07-2024)

**Objective of the Activity Done:**

**Detailed Report:**

The internship report assigned to me by Sai Satish Sir was my sole focus this week, which I completed. The report explains the activities that took place at AIMER Society and includes AI and cybersecurity topics such as Object Detection, Telegram Chatbot, Visual Question Answer Model, Power BI, Text Summarization and Generative AI. Once done with it, I sent it to AIMERS Company and got a confirmation e-mail saying that I would be given a certificate after successful completion of my internship.

Later on, I made a report that detailed what I had learned during the internship process. This was also handed in after making sure that it captured everything as expected in terms of comprehensiveness and other requirements. Consequently, handing over the report marked the end of my internship where both academic obligation and professional obligations were met.

# CHAPTER: OUTCOMES DESCRIPTION

1. **People Interactions:** The work environment at was highly collaborative and supportive. Colleagues were approachable and always willing to assist with any questions or challenges. Regular team meetings and brainstorming sessions facilitated open communication and the exchange of ideas.

2. **Protocols, Procedures, and Processes:** The company had well-established protocols, procedures, and processes in place. These guidelines were documented and easily accessible, ensuring that everyone was aware of standard operating procedures and compliance requirements. Regular training sessions were conducted to keep everyone updated on any changes.

3. **Discipline and Time Management:** The work culture emphasized discipline and efficient time management. Employees were punctual, and deadlines were respected. Tools such as project management software and time-tracking systems were used to ensure that tasks were completed on schedule.

4. **Harmonious Relationships and Socialization:** The workplace fostered harmonious relationships among employees. Regular team-building activities, social events, and informal gatherings helped to strengthen bonds and create a sense of community. The company culture encouraged inclusivity and respect for diversity.

5. **Mutual Support and Teamwork:** Teamwork was a cornerstone of the work environment. There was a strong emphasis on mutual support, with team members frequently collaborating on projects and sharing knowledge. Mentorship programs and peer reviews further reinforced this collaborative spirit.

6. **Motivation:** The company employed various strategies to keep employees motivated. These included recognition programs, performance incentives, and opportunities for professional development. Regular feedback and encouragement from supervisors also played a significant role in maintaining high morale.

7. **Space and Ventilation:** The office layout was spacious and well-ventilated, contributing to a comfortable working environment. Natural light was abundant, and the use of plants and open spaces helped create a pleasant atmosphere. Workstations were designed to provide enough personal space while fostering interaction.

8. **Overall Experience:** Overall, the work environment at [Company/Organization Name] was conducive to productivity and personal growth. The combination of a supportive culture, clear communication, and well-maintained facilities created an ideal setting for professional development. The emphasis on teamwork, mutual support, and motivation ensured a positive and fulfilling internship experience.

# REAL TIME SKILLS ACQUIRED

**1. Skill Development Program Management:** Interns may gain hands-on experience in managing skill development programs, including program design, scheduling, and monitoring.

**2. Database Management:** If involved in data management, interns could learn database skills for storing, retrieving, and managing participant information and program data.

**3. Web Development (if relevant):** Depending on the role, interns may acquire web development skills, especially if they are involved in maintaining the organization's website or online platforms.

**4. Communication and Outreach:** Interns often develop strong communication skills, including drafting emails, creating promotional materials, and participating in outreach campaigns.

**5. Documentation and Reporting:** Interns are likely to improve their documentation and reporting skills, including the preparation of reports and records of program activities.

**6. Project Coordination:** Interns might gain skills in project coordination, including task planning, scheduling, and collaboration with team members.

**7. Time Management:** Time management skills are often honed as interns work on multiple tasks and meet project deadlines.

**8. Technical Tools and Software:** Depending on the specific role, interns may become proficient in using various software tools, such as project management software, data analysis tools, or content management systems.

**9. Problem-Solving:** Handling day-to-day challenges and issues that arise during program implementation can improve problem-solving and critical thinking skills.

**10. Teamwork:** Collaboration with colleagues and team members enhances interpersonal and teamwork skills.

# MANAGERIAL SKILLS ACQUIRED

## Planning:

- Strategic Planning - Aligning team efforts with AWS's overarching goals for maximum impact.
- Project Planning - Defining objectives, timelines, and resource allocation for efficient project execution.
- Resource Management - Optimizing the use of cloud and human resources to enhance project outcomes.
- Risk Management - Identifying and mitigating risks to ensure project continuity.

## Leadership:

- Team Leadership - Motivating and guiding teams to achieve high-performance standards.
- Mentorship - Supporting junior team members' development and career growth.
- Conflict Resolution - Effectively addressing and resolving team conflicts to maintain a positive work environment.
- Change Management - Leading teams through transitions and technological changes.

## Teamwork and Behavior:

- Collaboration - Working seamlessly with cross-functional teams to achieve common goals.
- Communication - Effectively conveying project goals and progress to team members and stakeholders.
- Ethical Behavior - Upholding ethical standards and integrity in decision-making and actions.
- Adaptability - Navigating and thriving in a dynamic, fast-paced tech environment.

## Productive Use of Time:

- Time Management - Efficiently managing tasks and schedules to maximize productivity.

- Task Prioritization - Identifying and focusing on the most critical and time-sensitive tasks.

- Productivity Tools - Utilizing software and tools to enhance time management and project organization.

- Delegation - Delegating tasks strategically to optimize team productivity and workload distribution.

These skills collectively contribute to effective leadership and project management within the context of an AIMER SOCIETY internship, helping interns develop valuable competencies for their future careers

## Workmanship:

- **Attention to Detail:** Ensured high-quality work by paying attention to detail and adhering to established standards and guidelines.

- **Continuous Improvement:** Implemented continuous improvement practices, seeking feedback and making necessary adjustments to enhance work quality and efficiency.

## Weekly Improvement in Competencies:

- **Time Management:** Prioritized tasks effectively and utilized time management techniques such as the Pomodoro Technique and time blocking to enhance productivity.

- **Delegation:** Delegated tasks appropriately to team members based on their strengths and workload, ensuring efficient use of time and resources.

## Goal Setting:

- Expand the scope of research and applications in AI to cover emerging fields and technologies.
- Increase collaboration with international AI societies and organizations.
- Enhance training and certification programs to meet the evolving needs of AI professionals.
- Promote ethical AI practices and address challenges related to AI governance and societal impact.

## Decision Making:

Develop decision-making processes based on data, analysis, and best practices. Balance speed and thoroughness to meet dynamic demands. Involve relevant stakeholders by fostering open communication and collaboration. Seek diverse perspectives to enhance the decision-making process through brainstorming and feedback sessions. Learn from both successful and unsuccessful decisions by analyzing outcomes and documenting lessons learned. Implement continuous improvement by refining strategies based on past experiences. Use advanced tools for data collection and analysis to support informed decisions. Prioritize tasks and allocate resources efficiently, ensuring timely and effective decision-making.

# IMPROVEMENT OF COMMUNICATION SKILLS

**Oral Communication:** Enhance speaking and listening skills through active participation in meetings and presentations, seeking feedback from peers and mentors.

**Written Communication:** Improve writing style, grammar, and clarity by collaborating on written projects, using editing tools, and reading diverse materials.

**Conversational Abilities:** Develop conversational agility by engaging in diverse discussions, debates, and mentorship, embracing opportunities to communicate effectively.

**Confidence Levels:** Build confidence gradually by thorough preparation, increasing speaking engagements, and focusing on delivering valuable messages.

**Anxiety Management:** Manage anxiety with relaxation techniques, visualization, and mentorship, addressing it proactively for effective communication.

**Understanding Others:** Practice empathetic listening, ask open-ended questions, and adapt communication styles to understand others better.

**Getting Understood:** Use clear and concise language, encourage questions, and adjust communication for different audiences to ensure understanding.

**Extempore Speech:** Hone extemporaneous speaking skills through practice, workshops, and spontaneous speaking opportunities.

**Closing Conversations:** Summarize key points, clarify next steps, ex press gratitude, and maintain professionalism when concluding interactions.

**Maintaining Niceties:** Adhere to organizational protocols and etiquette, display courtesy and respect, and be aware of cultural norms.

**Greeting and Appreciation:** Start with warm greetings, express genuine thanks, and regularly acknowledge colleagues' contributions to foster a positive work environment.

# ENHANCEMENT OF SKILLS

## 1. Active Listening and Communication:

- Actively listen to your colleagues during group discussions and meetings. Pay attention to their ideas and opinions.

- Practice clear and concise communication. Ensure your points are well-articulated and relevant to the topic under discussion.

## 2. Effective Contribution as a Team Member:

- Always come prepared for team meetings with relevant information or updates related to your tasks.

- Be proactive in seeking feedback and offering assistance to your team members when needed.

## 3. Knowledge and Skill Development:

- Continuously improve your technical skills related to Django and web development. Stay updated with the latest trends and best practices.

- Share your knowledge with your team members by offering insights or solutions to technical challenges.

## 4. Initiative and Problem-Solving:

- Take the initiative to identify and address potential roadblocks or issues in your projects.

- When faced with challenges, approach problem-solving as a team effort, brainstorming solutions and collaborating to implement them.

## 5. Time Management:

- Efficiently manage your time to meet project deadlines and commitments. Prioritize tasks and allocate your time wisely.

## 6. Leadership in Team Activities:

- If the opportunity arises, volunteer to lead specific team activities or projects. This demonstrates your leadership capabilities.

# TECHNOLOGICAL DEVELOPMENTS:

## 1. Computer Vision:

- Techniques and applications for enabling machines to interpret and process visual information
- Understanding of image processing techniques.
- Development and implementation of vision-based solutions.

## 2. Convolutional Neural Networks (CNN):

- Proficiency in building and training CNN models.
- Knowledge of CNN architecture and applications in image recognition and classification tasks.

## 3. Image Classification:

- Experience using Google Teachable Machine for image classification.
- Understanding the workflow from image collection to model training and evaluation.
- Skills in categorizing and labeling images based on specific rules.

## 4. Image Object Detection:

- Ability to develop object detection models.
- Knowledge of algorithms such as YOLO, SSD, and Faster R-CNN.
- Practical applications of object detection in various domains.

## 5. YOLO (You Only Look Once) - Object Detection:

- Proficiency in using YOLO for real-time object detection.
- Experience with domain-specific datasets in medical, agriculture, drones, and traffic.
- Integration of YOLO models in real-world applications.

## 6. Medical Image Analysis and Labelling:

- Skills I n using Roboflow for image labeling.
- Understanding the importance of accurate labeling in medical image analysis.
- Proficiency in developing AI models for medical applications.

### 7. Human Pose Estimation:

- Experience using Google Teachable Machine for human pose estimation.
- Understanding techniques for detecting and tracking human figures and their poses in images or videos.

### 8. Mediapipe Studio:

- Knowledge of building multimodal applied machine learning pipelines.
- Experience using Mediapipe Studio for hand gesture recognition and other applications.

### 9. OpenCV Basics:

- Understanding fundamental concepts and functionalities of OpenCV.
- Practical skills in using OpenCV for various computer vision tasks.

### 10. Chatbot Development:

- Skills in creating interactive agents that can converse with humans using natural language.
- Experience with designing and integrating conversational user interfaces.

### 11. Google Dialogflow:

- Proficiency in using Google Dialogflow for natural language understanding.
- Skills in developing and deploying conversational agents.

### 12. Generative AI:

- Techniques for generating new content such as music, text, and images.
- Experience with models for music generation, text generation, and image generation.

### 13. AI Models:

- Knowledge of various AI models used for different applications.
- Skills in summarization, fill-mask models, and transformers.

### 14. Visual Question & Answering:

- Development of models that answer questions about images.
- Integration of visual and textual data for question answering.

### 15. Document Question & Answering:

- Skills in developing models that answer questions based on document content.

### 16. Table Question & Answering:

- Proficiency in creating models that answer questions using tabular data.

### 17. Large Language Models (LLMs):

- Knowledge of advanced language models like Claude, GPT, Gemini, LLaMA3, and Open LLMs.
- Experience in text generation and language understanding.

### 18. Other Topics:

- Implementation of Google's Vision API for image analysis.
- Understanding and using small language models (SLMs) like BERT and GPT.
- Skills in deploying and managing AI models using Ultralytics Hub.
- Development of lightweight models for mobile and embedded devices using TensorFlow Lite.
- Proficiency in sentiment analysis and creating deepfakes.

## Cyber Security Skills Acquired

## Cyber Security Basics:

Fundamental principles and practices for protecting computer systems and networks from cyber threats.

### Types of Cyber Crimes:

Understanding various forms of illegal activities conducted via the internet.

### 1. CIA Triad:

- Core principles of cybersecurity—Confidentiality, Integrity, and Availability.

## 2. AAA Framework:

- Knowledge of Authentication, Authorization, and Accounting framework for managing and securing identities and their access.

## 3. OWASP:

- Familiarity with the Open Web Application Security Project and its focus on improving software security.

## 4. SQL Injection:

- Understanding of SQL injection techniques and prevention methods.

## 5. Cross Site Scripting (XSS):

- Skills in identifying and mitigating XSS vulnerabilities.

## 6. Firewall:

- Knowledge of network security systems that monitor and control incoming and outgoing network traffic based on predetermined security rules.
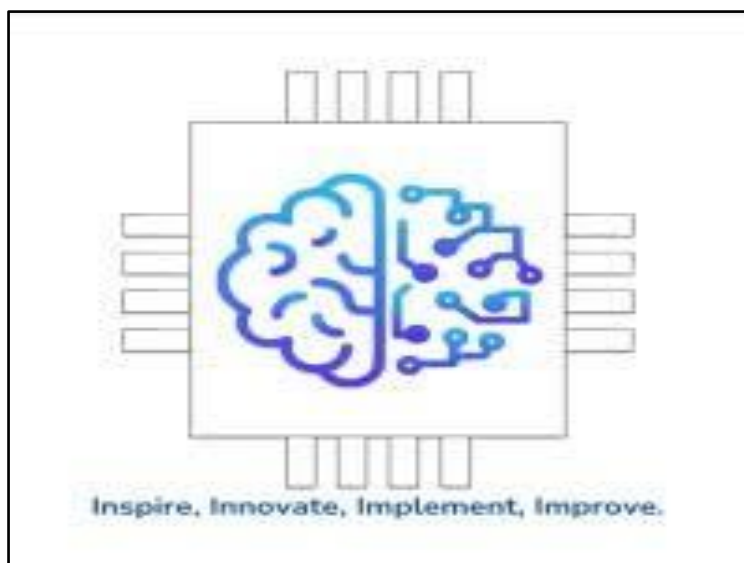
## 7. Vulnerability Scanner:

- Proficiency in using tools like Acunetix for identifying and addressing vulnerabilities in systems and applications.
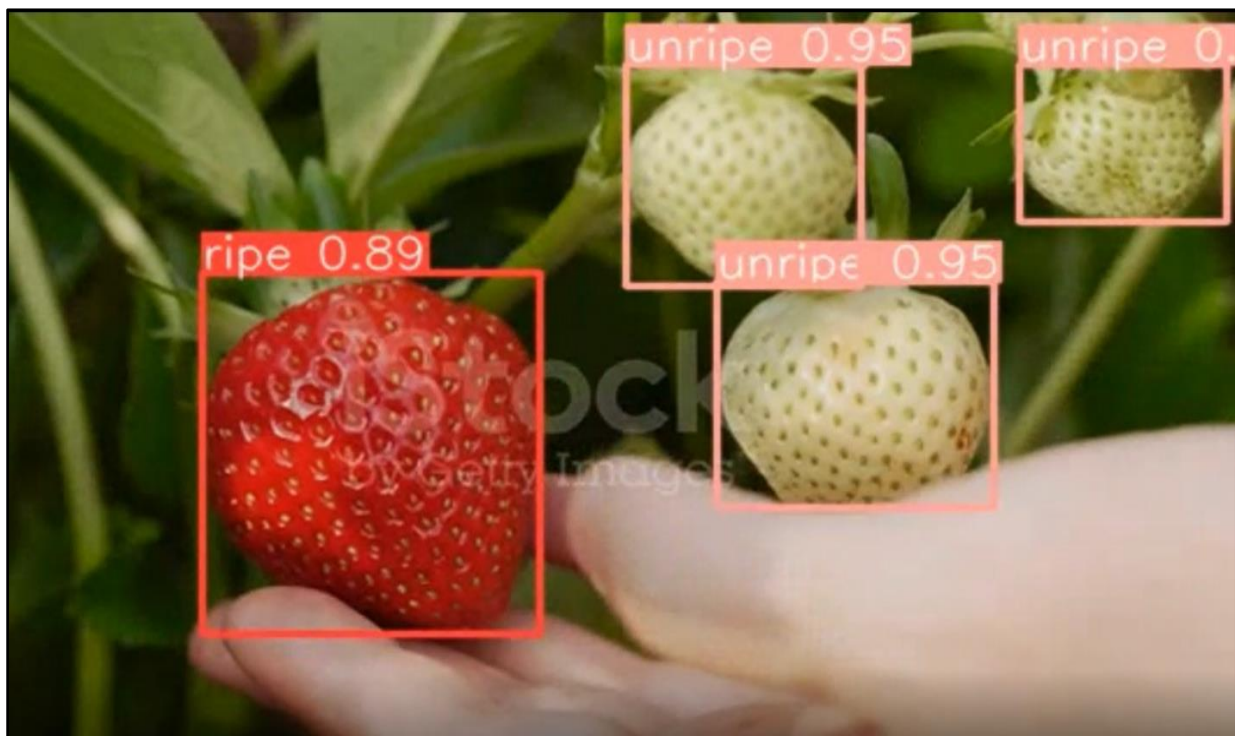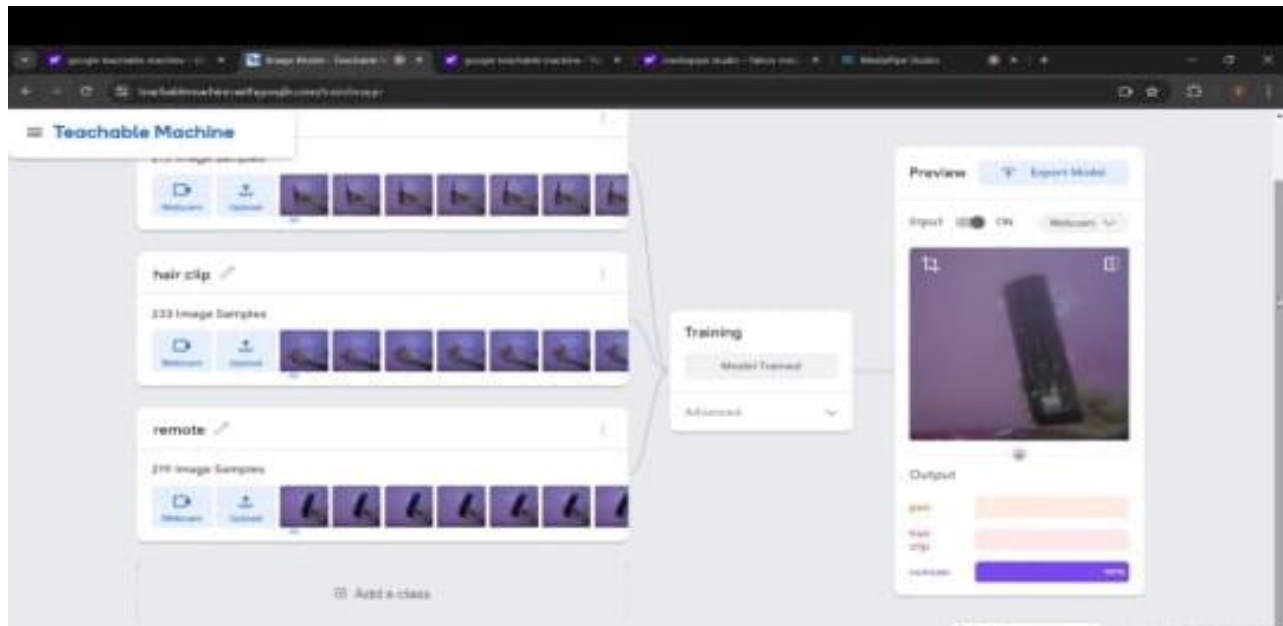
# CONCLUSION

I am from Computer Science and Engineering department. I don't know much more about Artificial Intelligence and Cyber Security. This AI internship can be incredibly valuable for building my career in Artificial Intelligence and Cyber Security. This internship helps me a lot that I can learned so many things from this internship like How to use the CHATGPT efficiently, how to detect objects using different models like YOLOv8, Some more different models, generative AI, CHATBOT development for telegram, creating a talking parrot, how to generate the images from the text with the help of DALL-E and this knowledge makes me to create a lot of things of my own. I did so many tasks with the help of this internship under the proper guidance of Sai Satish Sir.
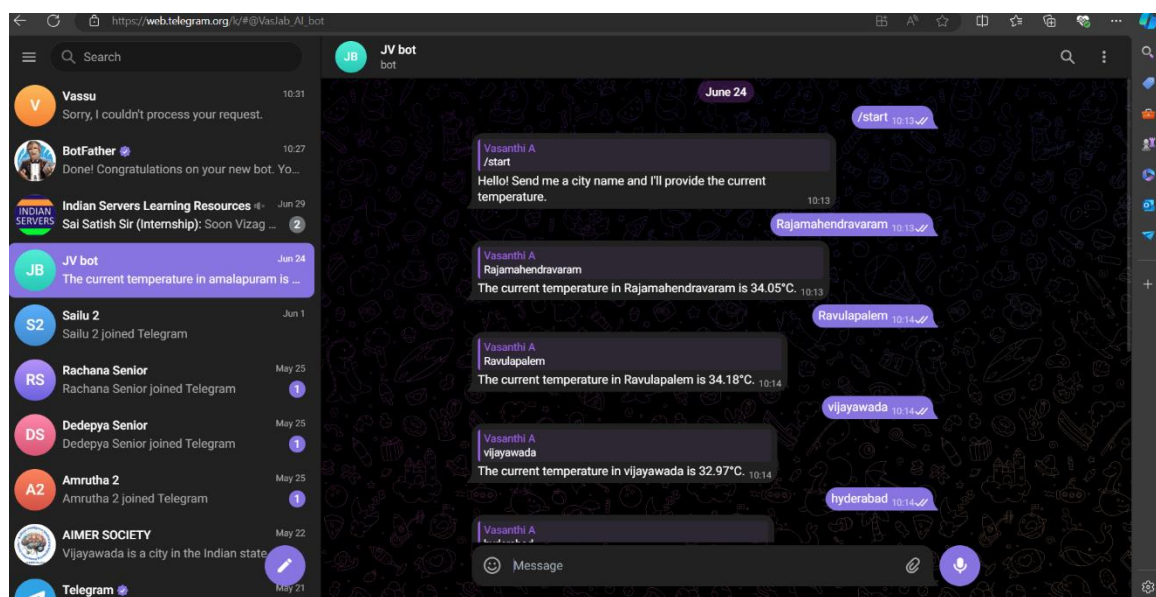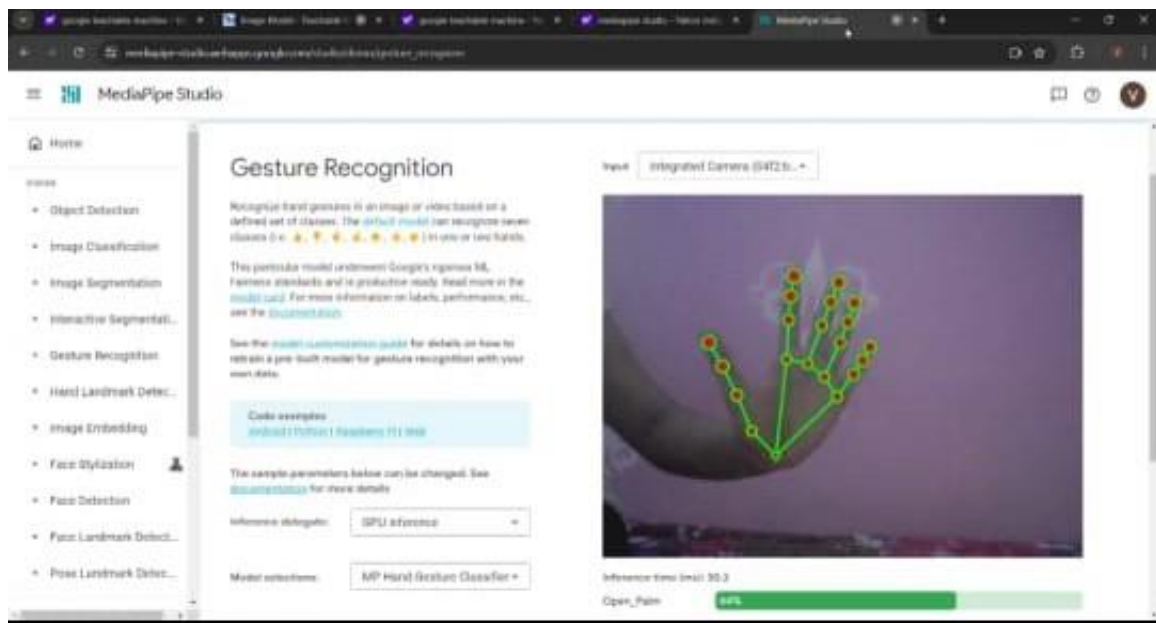
And the Another part i.e the Cyber Security internship also helps me a lot to acquire more knowledge and more skills about what is really happening in the society with increasing in the population and rapid improvement of technology very fastly. This internship that was provided by AIMERS and the classes taken by Sai Satish Sir create so much awareness about Cyber Crimes. The class about Cyber Crimes was so interesting and that was so helpful to the most of the people to avoid or escape from the Cyber Crimes. This internship taught me that how the all-illegal activities are happened through the network.

This internship was so helpful to me and my family members especially avoiding from the Cyber Crimes, and how to keep safe our devices and our private & personal data, and also taught that why it is important that we have to create a unique password and why we don't share our OTPs with others. I think this is the best Internship that I did. Thank you, Sai Satish Sir, …
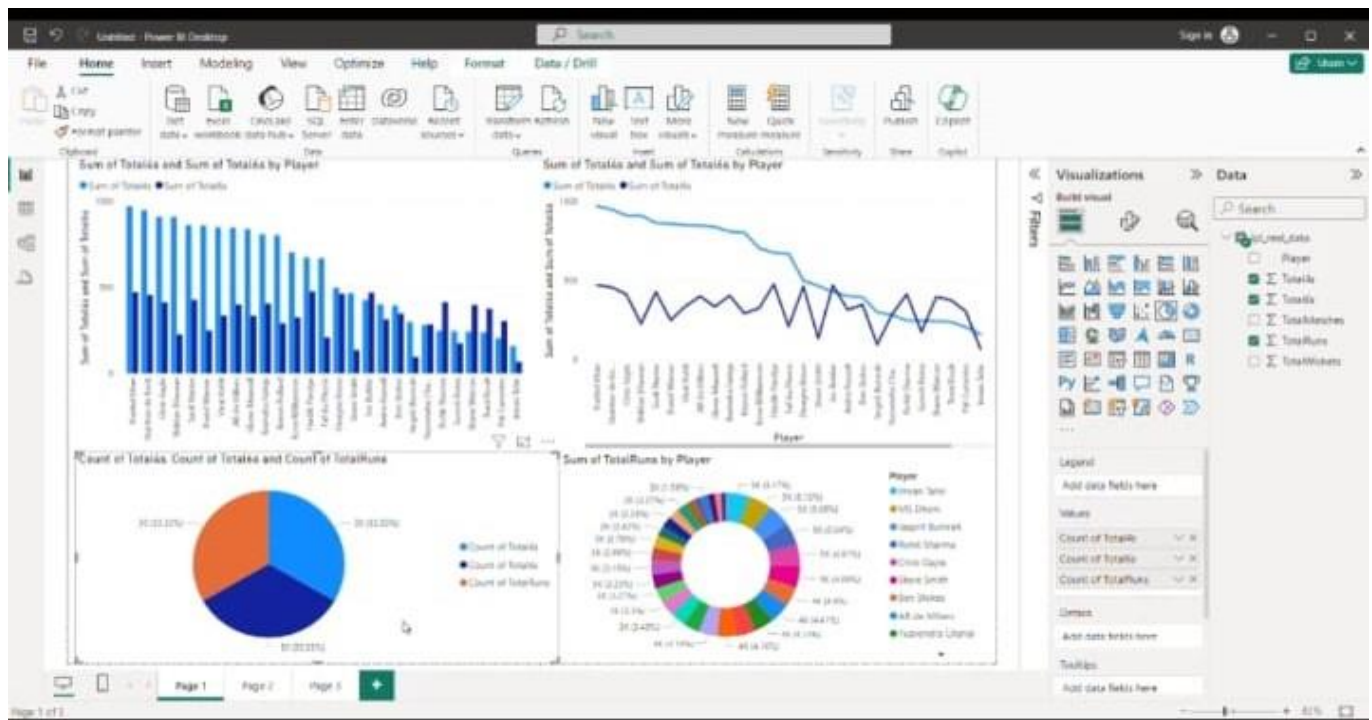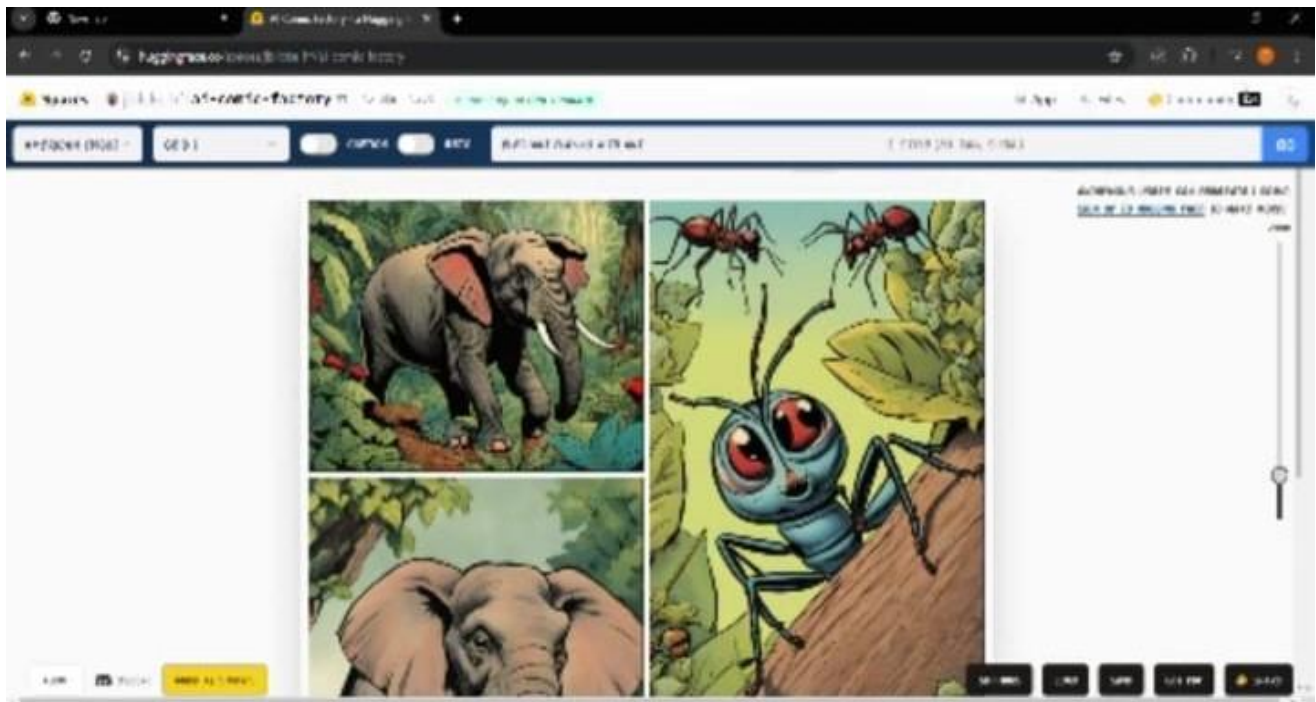


Inspire, Innovate, Implement, Improve.

# OUTPUT & PROJECT LINKS
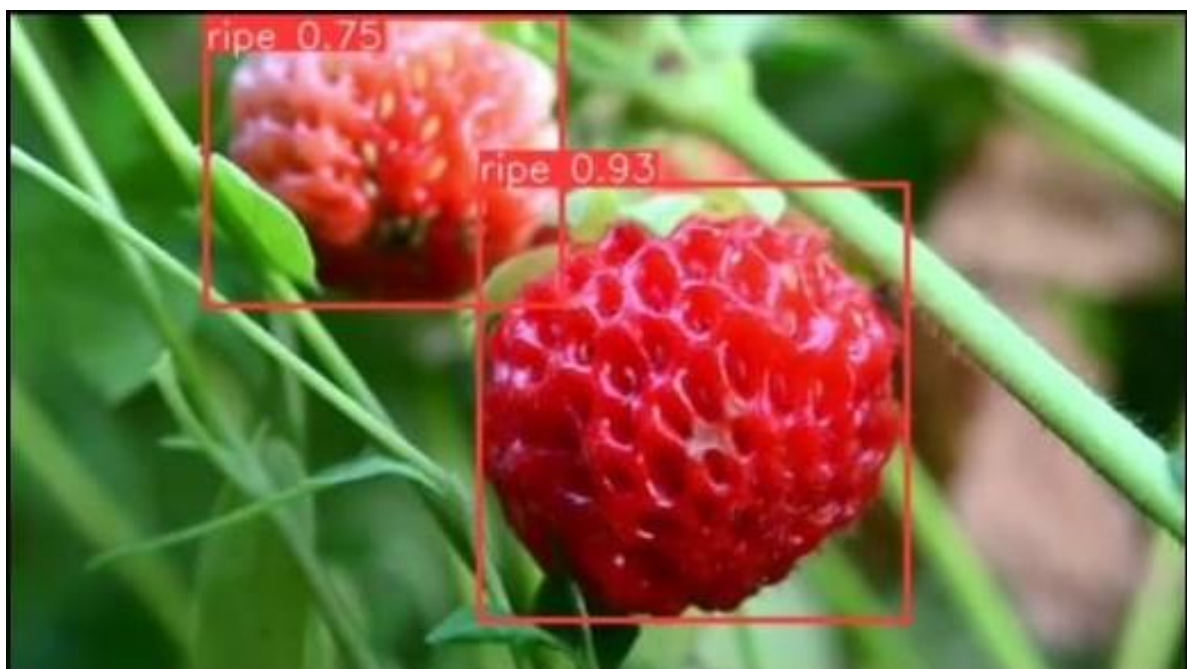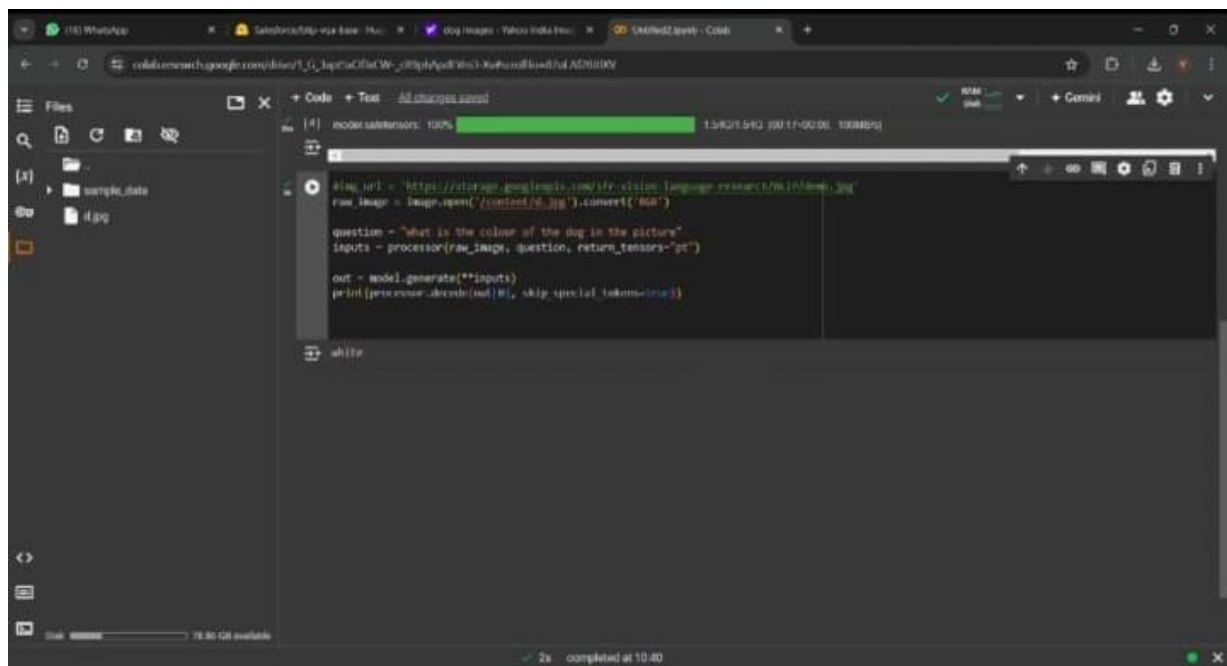
**Tasks Links:**

| S.no | Description | Link |
|------|-------------|------|
| 1 | **Chat Bot:**<br><br>I have developed a telegram bot that can interact with human directly with natural language. | https://www.linkedin.com/posts/vasanthi-akkivarapu-a3827a310_aimersocity-apsche-internship-activity-7210949249805545474-cysJ?utm_source=share&utm_medium=member_android |
| 2 | **Visual Question Answering model:**<br><br>I developed thid model that it can take images from our file manager and take questions from the user and give answers. | https://www.linkedin.com/posts/vasanthi-akkivarapu-a3827a310_aimer-aimersociety-machinelearning-activity-7209818633269616641-HVuy?utm_source=share&utm_medium=member_android |
| 3 | **Object Detection:**<br><br>I am using Roboflow for detecting objects and using input dataset from universe which is pre trained .in that I am using yolov8 AI model<br>it is the best model to detect objects. In this detection can be done in agriculture, medical fields also. | https://www.linkedin.com/posts/vasanthi-akkivarapu-a3827a310_aimersociety-aimers-apsche-activity-7211228224016523265-L9sM?utm_source=share&utm_medium=member_android |
| 4 | **Image Classification:**<br> Here, we can identify & detect the images using The Google Teachable Machine. | https://www.linkedin.com/posts/vasanthi-akkivarapu-a3827a310_aimersociety-ai-machinelearning-activity-7212483517966860290-ICOs?utm_source=share&utm_medium=member_android |
| 5 | **Generative AI Comics** | https://www.linkedin.com/posts/vasanthi-akkivarapu-a3827a310_apsche-aimer-aimersociety-activity-7218231241232314369-MmqJ?utm_source=share&utm_medium=member_android |

| | | |
|---|---|---|
| 6. | **Power BI**:<br><br>Using power bi we can visualize the data in different ways for example in bar charts, pie charts, etc | 1) https://www.linkedin.com/posts/vasanthi-akkivarapu-a3827a310_aimers-aimersociety-apsche-activity-7208783576014700545-nkA0?utm_source=share&utm_medium=member_android<br>2) https://www.linkedin.com/posts/vasanthi-akkivarapu-a3827a310_aimers-aimersociety-apsche-activity-7209439983202381824-UBpx?utm_source=share&utm_medium=member_android |
| 7. | **Pose detection:**pose detection model using Google Teachable Machine that accurately classify and identify various human poses in real time. | https://www.linkedin.com/posts/vasanthi-akkivarapu-a3827a310_aimersociety-teachablemachine-posedetection-activity-7213774877235785728-GZI6?utm_source=share&utm_medium=member_android |
| 8. | **Recognizing Hand gesture:**<br>For this I am using mediapipe studio it have lots of projects choose project we need And test the project | https://www.linkedin.com/posts/vasanthi-akkivarapu-a3827a310_aimersociety-ai-machinelearning-activity-7212483517966860290-ICOs?utm_source=share&utm_medium=member_android |

# Student Self Evaluation of the Short-Term Internship

**Student Name:** AKKIVARAPU VASANTHI

**Registration No:** 22551A0501

**Term of Internship:** 8 Weeks

**From:** 15-05-2024          **To:** 15-07-2024

**Date of Evaluation:**

**Organization Name & Address:** Artificial Intelligence Medical and Engineering Researchers Society (AIMER Society), Vinayaka Temple Roads, Shri Ramchandra Nagar, Vijayawada, Krishna, Andhra Pradesh – 520008

**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 communications | 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:** AKKIVARAPU VASANTHI

**Registration No:** 22551A0501

**Term of Internship:** 8 Weeks

**From:** 15-05-2024          **To:** 15-07-2024

**Date of Evaluation:**

**Organization Name & Address:** Artificial Intelligence Medical and Engineering Researchers Society (AIMER Society), Vinayaka Temple Roads, Shri Ramchandra Nagar, Vijayawada, Krishna, Andhra Pradesh – 520008

**Name & Address of the Supervisor with Mobile Number:** Dr. B. SUJATHA& GIET(A)

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 communications | 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**

# INTERNAL ASSESSMENT  STATEMENT

**Name Of the Student:** AKKIVARAPU VASANTHI
**Programmer of Study:** Bachelor of Technology
**Year of Study:** 3$^{rd}$ Year
**Group:** Computer Science and Engineering
**Register No/H.T. No:** 22551A0501

**Name of the College:** Godavari Institute of Engineering & Technology(A)

| Sl. No | Evaluation Criterion | Maximum Marks | Marks Awarded |
|--------|----------------------|---------------|---------------|
| 1. | Activity Log | 25 | |
| 2. | Internship Evaluation | 50 | |
| 3. | Oral Presentation | 25 | |
| 4. | GRAND TOTAL | 100 | |

Date:                          **Signature of the Faculty Guide**

                                    **Certified by**

Date:                          **Signature of the Head of the Department/Principal**

Seal: