# FULL SEMESTER INTERNSHIP REPORT
## On
## "AI/ML & Automation Internship"

*Submitted in partial fulfillment of the requirements for the award of the degree of*

## BACHELOR OF TECHNOLOGY
*in*
*COMPUTER SCIENCE AND BUSINESS SYSTEMS*
## By

*Pobbathi Gowri Priya*

*209X1A2927*



**Department of Emerging Technologies in Computer Science (ECS)**

**G. Pulla Reddy Engineering College (Autonomous): Kurnool-518007, Andhra Pradesh, India**

**(Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuram)**

**2020-2024**

# Department of Emerging Technologies in Computer Science (ECS)

## G. Pulla Reddy Engineering College (Autonomous): Kurnool-518007

### (Affiliated to Jawaharlal Nehru Technological University-Anantapur, Ananthapuram)



# Certificate

This is to certify that an Internship entitled **"AI/ML & Automation Internship"** is a bona-fide work done by **Pobbathi Gowri Priya (209X1A2927)** of G. Pulla Reddy Engineering College (Autonomous): Kurnool, Andhra Pradesh, India, for partial fulfillment of the requirements for the award of degree of **Bachelor of Technology** in **Computer Science and Business Systems** during the academic year 2020-2024.

The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree.

**Internship Mentor**                                          **Head of the Department**

*Sri.P.N.V.S.Pavan Kumar*                            *Dr. R. Praveen Sam*
Assistant Professor                                              Professor & Head
Department of ECS                                             Department of ECS

# An Internship Report

*Submitted in accordance with the requirement for the degree of*
*<u>Bachelor of Technology</u>.*

**Name of the College:** G.Pulla Reddy Engineering College, Kurnool

**Department:** Emerging Technologies in Computer Science (ECS)

**Name of the Faculty Guide:** Sri.P.N.V.S.Pavan Kumar, Assistant Professor, Department of ECS

**Duration of the Internship:** From 20$^{th}$ December, 2023  To 30$^{th}$ April, 2024

**Name and address of the Organization:** The Web Blinders, Gachibowli, Hyderabad and Incubation Center, Kurnool.

**Name of the Student:** Pobbathi Gowri Priya.

**Programme of Study:** Computer Science and Business Systems.

**Year of Study:** 2023-2024

**Register Number:** 209X1A2927

**Date of Submission:**

# Student's Declaration

I, **Pobbathi Gowri Priya** , a student of **Computer Science and Business Systems** Program, Reg.No. **209X1A2927** of the Department of **Emerging Technologies in Computer Science** , **G.Pullareddy Engineering** College do hereby declare that I have completed the mandatory internship from **20ᵗʰ December, 2023** to **30ᵗʰ April, 2024** in **The Web Blinders** (Name of the internship organization) under the Faculty Guideship **of Sri.P.N.V.S.Pavan Kumar**, (Name of the Faculty Guide), Department of **Emerging Technologies in computer Science** in **G.Pullareddy Engineering** College.

*(Signature and Date)*

**Endorsements**

Faculty Guide

Head of the Department

Principal

# Certificate from Organization

## Certificate
### OF INTERNSHIP COMPLETION

**THE WEB BLINDERS**

WE WANT TO SAY THANK YOU TO

## POBBATHI GOWRI PRIYA

For being our AI - ML & Automation - Intern
From 20-12-2023 to 30-04-2024

She consistently delivered outstanding results and was a valuable asset to the team. We extend our sincerest wishes for continued success in all her future endeavors.

*B. Manohar*

**MANOHAR KRISHNAMURTHY**
CHIEF MANAGING OFFICER & HR MANAGER

www.thewebblinders.in

# Acknowledgements

We wish to express our deep sense of gratitude to our Internship manager **Sri. Manohar Krishnamurthy**, in The Web Blinders Company for his immaculate guidance, constant encouragement and cooperation which have made it possible to complete  this internship.

We wish to express our deep sense of gratitude to our internal guide **Sri.P.N.V.S.Pavan Kumar,** Assistant Professor of Emerging Technologies in Computer Science Department, G. Pulla Reddy Engineering College, for her immaculate guidance, constant encouragement and cooperation which have made it possible to complete  this internship.

We are grateful to our internship in charge **Smt.O.Sirisha** , Assistant Professor of Emerging Technologies in Computer Science Department, G. Pulla Reddy Engineering College, for helping us and giving us the required information needed for our internship.

We are thankful to our Head of the Department **Dr. R. Praveen Sam,** for his whole hearted support and encouragement during the Internship session.

We are grateful to our respected Principal **Dr. B. Sreenivasa Reddy** for providing requisite facilities and helping us in providing such a good environment.

We wish to convey our acknowledgements to all the staff members of the Emerging Technologies in Computer Science department for giving the required information needed for our Internship.

Finally, we wish to thank all our friends and well-wishers who have helped us directly or indirectly during the course of this Internship.

# CHAPTER 1: EXECUTIVE SUMMARY

**A Brief Description of the Intern Organization:**

The Web Blinders is a tech startup founded in 2019 by Sri Manohar Krishnamurthy. The Web Blinders, a dynamic software company that specializes in providing cutting-edge IT solutions across various sectors. They cater to various sectors, including real estate, construction, and education. With over 100+ customers and 5000+ users, they've established a strong presence in the industry.

**Program Objectives:**

Skill Development: The primary goal of this internship program is to equip interns with practical skills in AI and ML, enabling them to apply their knowledge to real-world problems. Hands-On Experience: Interns will work on meaningful projects and engage in practical exercises to develop a deep understanding of AI/ML & Automation concepts.

**Key Program Components:**

Curriculum: The internship program covers a wide range of AI/ML & Automation topics, including data preprocessing, model development, evaluation, and deployment.

Project Work: Interns will complete hands-on projects that mirror real-world scenarios, applying AI/ML techniques to solve practical problems.

Mentorship: Each intern will be paired with a dedicated mentor who will provide personalized guidance and support.

Networking Opportunities: Interns will have the chance to interact with peers, mentors, and professionals in the AI/ML field through offline events and forums.

**Benefits for Interns:**

Gain practical experience in AI/ML & Automation.

Develop a strong portfolio of AI/ML & Automation projects.

Receive mentorship and guidance from industry experts.

Enhance networking opportunities within the AI/ML & Automation community.

Improve employability and career prospects in the data science field.

# CHAPTER 2: OVERVIEW OF THE ORGANIZATION

**Introduction of the Organization:**

The Web Blinders is a platform that provides internship opportunities and skill development resources for students and young professionals. It was founded by Sri Manohar Krishnamurthy and has since become one of the popular internship and training platforms in India. The Web Blinders has played a significant role in connecting students and fresh graduates with internships and learning opportunities, helping them kickstart their careers. It has become a trusted platform for both job seekers and employers in India, and it continues to evolve to meet the changing needs of the job market.

**B. Vision, Mission and Values of the Organization:**

**Vision:** It's aim is to achieve this by offering innovative software solutions tailored to the unique needs of different industries, including real estate, construction, education, and healthcare.

**Mission:** It can infer that The Web Blinders envisions a future where technology seamlessly integrates with business operations, streamlining processes, enhancing productivity, and elevating sales performance for their clients

**Values:** Some core principles based on their services and approach:

- **Innovation**: The Web Blinders consistently seeks efficient solutions and stays at the forefront of technological advancements.
- **Client-Centric Approach**: Their outputs embody the message, mission, and vision of their clients, emphasizing a strong partnership.
- **Quality and Excellence**: Delivering bespoke applications that exceed expectations, they prioritize quality and excellence in their work

**C. Policy of the Organization, in relation to Intern role:**

**Internship Opportunities**: The Web Blinders offers internships across various domains, including graphic design, full-stack development, data science, and more. Interns gain practical experience and enhance their skills during the internship period.

**Comprehensive Training Programs**: The company provides comprehensive end-to-end courses and internship programs for IT enthusiasts. These programs cover foundational concepts to advanced skills, helping interns elevate their IT careers.

**D. Organizational Structure:**

The Web Blinders is a dynamic software company specializing in enterprise applications, web development, and mobile apps. They serve over 5,000 users across various industries, including real estate, construction, education, and healthcare. Their offerings include CRM, ERP, and CMS integration, construction industry solutions, and MediVista—an innovative medical education software. Skill Forge provides comprehensive training, and they prioritize innovation, client-centricity, and excellence in their work.

**E. Roles and Responsibilities of Employees in which the Intern is Placed:**

As an intern at The Web Blinders, your roles include hands-on learning, project support, and a client-centric approach. Collaborate with experienced team members, align your work with client goals, and contribute to ongoing projects. Enjoy flexible work hours and receive a certificate upon successful completion of your internship.

**F. Performance of the Organization:**

The Web Blinders is an Indian software company specializing in Enterprise Applications, Web Applications, and Mobile Apps. They cater to various sectors, including real estate, construction, and education. Their products include Real Estate Management Systems, Construction Management Systems, and Faculty Data Management Systems. With over 100+ customers and 5000+ users, they've established a strong presence in the industry.

**G. Future Plans of the Organization:**

This is the driving factor The Web Blinders. In the coming years, The Web Blinders wants to take the step of providing meaningful internships to students and individuals in tier 2 and tier 3 cities by creating awareness and bringing opportunities to them.

# CHAPTER 3: INTERNSHIP PART

**Working Conditions:**
- The AI/ML & Automation internship is entirely offline, allowing interns to work in the Company
- Interns are required to have a suitable computer/laptop for internship.

**Weekly Work Schedule:**
- The internship schedule is flexible, accommodating varying time zones and personal commitments.
- Regular meetings are scheduled to provide updates, guidance, and mentorship.

**Equipment Used:**
- Interns will primarily use their own computers or laptops with the necessary software and tools installed.
- Collaboration tools such as video conferencing, messaging apps, and project management software will be used for communication and task coordination.

**Tasks Performed:**
1. Project Assignments: Interns are assigned to project teams, working on real-world AI/ML & Automation problems. This involves data collection, preprocessing, model development and evaluation.
2. Documentation: Interns are responsible for documenting their work, including code, methodologies and results.
3. Networking: Actively participate in networking events and discussion forums to connect with professionals in the AI/ML community.

**Skills Acquired:**
Throughout the internship, interns will acquire a range of valuable skills, including:
- AI/ML & Automation Techniques: Mastery of various machine learning algorithms and techniques for data analysis and prediction.
- Data Preprocessing: Skills in cleaning, transforming, and preparing data for analysis.
- Project Management: Experience in planning and executing AI/ML projects, including documentation and collaboration.
- Communication: Improved communication skills through regular reporting, presenting,

and teamwork.

- Problem Solving: Enhanced problem-solving abilities, especially in the context of real-world AI/ML challenges.

- Networking: Development of a professional network within the AI/ML field.

# ACTIVITY LOG FOR THE FIRST WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 01/01/2024 | Induction Program | _____ | |
| Day-2 02/01/2024 | Induction Program | _____ | |
| Day-3 03/01/2024 | Induction Program | _____ | |
| Day-4 04/01/2024 | About the organization's functionalities and Business Operations | Learnt about the company's business operations and functionalities | |
| Day-5 05/01/2024 | About the organization's functionalities and Business Operations | Learnt about the company's business operations and functionalities | |
| Day-6 06/01/2024 | About the organization's functionalities and Business Operations | Learnt about the company's business operations and functionalities | |

<p style="text-align: center;">**WEEKLY REPORT**</p>

<p style="text-align: center;">**WEEK – 1 (From Dt 01/01/2024 to Dt 06/01/2024 )**</p>

**Objective of the Activity Done:** Induction Program, Organization Functionalities and operations.

**Detailed Report:**

The first week of January 2024 primarily focused on the induction program and familiarization with the organization's functionalities and business operations. The induction program likely involved orientation sessions, introductions to company policies, and familiarization with the company culture and values.

I have gained an understanding of the company's structure, departments, and how they interconnect to achieve organizational goals. Learning outcomes may include grasping the company's mission, vision, and core objectives, as well as understanding the roles and responsibilities within the organization.

Overall, the week emphasized establishing a foundation of knowledge about the company for new Interns, ensuring  the necessary information to integrate into the organization effectively. Additionally, it likely aimed to instill a sense of belonging and commitment among new comers, setting the stage for their continued growth and contribution to the company.

## ACTIVITY LOG FOR THE SECOND WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1<br>08/01/2024 | About the current projects in the organization | Got the information about the current projects in the company | |
| Day-2<br>09/01/2024 | About the current projects in the organization | Got the information about the current projects in the company | |
| Day-3<br>10/01/2024 | Knowledge transfer regarding Real Estate Management | Got the information regarding the Real Estate management | |
| Day-4<br>11/01/2024 | Knowledge transfer regarding Construction Management and ERP | Got the information regarding Construction Management & ERP | |
| Day-5<br>12/01/2024 | Knowledge transfer regarding Faculty Data Management Software | Got the information regarding Faculty Data Management Software | |
| Day-6<br>13/01/2024 | Evaluation of the Workflow. | _____ | |

# WEEKLY REPORT
## WEEK – 2 (From Dt 08/01/2024 to Dt 13/01/2024 )

**Objective of the Activity Done:** Real state management, Construction Management and ERP, Faculty Data Management Software

**Detailed Report:**

During the second week of January 2024, the focus shifted towards gaining insights into the ongoing projects and specific areas of expertise within the organization. We engaged in sessions dedicated to understanding the current projects, likely including their scope, objectives, and progress.

Additionally, knowledge transfer sessions were conducted, covering topics such as Real Estate Management, Construction Management, ERP systems, and Faculty Data Management Software. These sessions aimed to equip us with specialized knowledge relevant to the roles or the organization's operations.

By delving into these topics, participants expanded their understanding of key aspects of the company's operations, potentially enabling them to contribute more effectively to project teams or departmental initiatives. These sessions likely facilitated skill development and enhanced proficiency in areas critical to the organization's success, fostering a culture of continuous learning and professional growth.

## ACTIVITY LOG FOR THE THIRD WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 15/01/2024 | Knowledge transfer regarding Faculty Data Management Software | Got the information regarding the Faculty Data Management Software | |
| Day-2 16/01/2024 | Knowledge transfer regarding Fee Management Software | Got the information regarding the Fee Management software | |
| Day-3 17/01/2024 | Knowledge transfer regarding the Inventory Management Software | Got the information regarding the Inventory Management software | |
| Day-4 18/01/2024 | Introduction to Software Development and Software Development Life Cycle | Learnt about software Development Life Cycle | |
| Day-5 19/01/2024 | Real Time examples for Waterfall Model and Incremental Model | Learnt about waterfall model and how it is implemented in the industries | |
| Day-6 20/01/2024 | Assessment on the previous sessions. | ——— | |

# WEEKLY REPORT

## WEEK – 3 (From Dt 15/01/2024 to Dt 20/01/2024 )

**Objective of the Activity Done:** Faculty Data Management Software, Fee Management Software, Inventory Management Software, SDLC, Waterfall model.

**Detailed Report:**

In the third week of January 2024, the focus remained on knowledge transfer sessions, particularly centered around software and data management topics. We engaged in sessions dedicated to Faculty Data Management Software, Fee Management Software, and Inventory Management Software, deepening their understanding of these tools and their relevance to organizational operations.

Moreover, the week included an introduction to Software Development and the Software Development Life Cycle (SDLC), providing us with foundational knowledge about the stages and processes involved in creating software solutions. This session likely helped us in grasping the systematic approach to software development, enhancing their comprehension of project management and collaboration within development teams.

Towards the end of the week, real-time examples were provided to illustrate the Waterfall Model and Incremental Model in software development. This practical demonstration likely enabled us to understand the application of these models in industry settings, fostering a deeper understanding of project management methodologies and their implications for software development projects. Overall, the week emphasized building expertise in software-related domains critical to the organization's technological advancement and operational efficiency.

# ACTIVITY LOG FOR THE FOURTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 22/01/2024 | Concepts of Agile Development Model | Got to know how projects will be built using Agile development Model | |
| Day-2 23/01/2024 | Concepts of Scrum | Got to know about the importance of scrum | |
| Day-3 24/01/2024 | How to collect requirements and techniques? | Got to know about the importance of requirement gathering and different techniques | |
| Day-4 25/01/2024 | Live interaction with the client | Got to know to how to interact with the client and how to collect the requirements | |
| Day-5 26/01/2024 | Revision on the previous sessions. | _____ | |
| Day-6 27/01/2024 | Short assessment on the previous weeks | _____ | |

# WEEKLY REPORT

## WEEK – 4 (From Dt 22/01/2024 to Dt 27/01/2024 )

**Objective of the Activity Done:** Agile Development Model, Scrum.

**Detailed Report:**

During the fourth week of January 2024, the focus shifted towards methodologies and techniques crucial for effective project management and client interaction. We were introduced to the concepts of Agile Development Model and Scrum, gaining insights into modern approaches to project execution and team collaboration.

Furthermore, sessions were dedicated to understanding the importance of requirement gathering and various techniques employed in this process. This knowledge equipped participants with the skills needed to effectively elicit and document project requirements, ensuring alignment with client expectations and project objectives.

A highlight of the week was a live interaction session with a client, providing employees with practical experience in client engagement and requirement collection. This hands-on experience likely enhanced their communication and interpersonal skills, preparing them for real-world client interactions.

The week concluded with a short assessment, allowing us to review and reinforce their understanding of the topics covered in previous weeks. Overall, the week emphasized the importance of effective project management, client communication, and requirement gathering in ensuring the success of software development projects.

**ACTIVITY LOG FOR THE FIFTH WEEK**

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 29/01/2024 | Concepts on how to develop a project? | Get to know how the projects are actually developed at the industry level. | |
| Day-2 30/01/2024 | Concepts on how to breakdown a project into different modules | How the project is divided into different modules. | |
| Day-3 31/01/2024 | Concepts on Web Development | Learnt about the concepts of Web Development | |
| Day-4 01/02/2024 | Concepts of Front-End Web Development | Learnt about the concepts of Front-End Web Development | |
| Day-5 02/02/2024 | Concepts of Front-End Web Development and Databases | Learnt about the concepts of Front-End Web Development and DataBases | |
| Day-6 03/02/2024 | Concepts of Front-End Web Development and Databases | Learnt about the concepts of Front-End Web Development and DataBases | |

# WEEKLY REPORT

## WEEK – 5 (From Dt 29/01/2024 to Dt 03/02/2024 )

**Objective of the Activity Done:** Web Development, Front-End Web Development and Databases.

**Detailed Report:**

In the final week of January and the beginning of February 2024, the focus shifted towards practical aspects of project development and web development concepts. We delved into the intricacies of project development at an industry level, gaining insights into the systematic approach involved in bringing a project from conception to completion.

Further, We learned how to break down projects into different modules, understanding the importance of modularization for efficient development and maintenance. This knowledge likely equipped us with the skills needed to organize and manage complex projects effectively.

The week also introduced concepts of web development, with a specific focus on front-end development. We gained an understanding of the technologies and principles underlying the creation of user interfaces and experiences on the web.

Additionally, the week covered the integration of front-end development with databases, highlighting the importance of data management in web applications. Overall, the week emphasized practical skills and knowledge essential for professionals in software development, particularly in the context of web-based projects.

**ACTIVITY LOG FOR THE SIXTH WEEK**

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 05/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form and Image using Front End Web Development technologies | |
| Day-2 06/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form and Image using Front End Web Development technologies | |
| Day-3 07/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form and Image using Front End Web Development technologies | |
| Day-4 08/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form and Image using Front End Web Development technologies | |
| Day-5 09/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form and Image using Front End Web Development technologies | |
| Day-6 10/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form and Image using Front End Web Development technologies | |

# WEEKLY REPORT

## WEEK – 6 (From Dt 05/02/2024 to Dt 10/02/2024 )

**Objective of the Activity Done:** Conversion of Image to  SVGs.

**Detailed Report:**

During the first week of February 2024, the focus was on a specific skill set within front-end web development: the conversion of images into user-interactive SVGs. We engaged in daily sessions dedicated to learning this process, using front-end web development technologies to transform static images into dynamic, interactive elements for web applications.

Through these sessions, we acquired hands-on experience in utilizing SVG (Scalable Vector Graphics) to enhance user engagement and visual appeal on web platforms. We learned practical techniques for converting images into SVG format, along with methods to add interactivity and functionality using JavaScript and other front-end technologies.

The repetition of the activity throughout the week allowed us to reinforce their understanding and proficiency in this skill, ensuring they were adept at incorporating interactive SVGs into their web development projects. By mastering this technique, we expanded their toolkit for creating rich, visually compelling user experiences, further solidifying their expertise in front-end web development.

**ACTIVITY LOG FOR THE SEVENTH WEEK**

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 12/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form and Image using Front End Web Development technologies | |
| Day-2 13/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form and Image using Front End Web Development technologies | |
| Day-3 14/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form and Image using Front End Web Development technologies | |
| Day-4 15/02/2024 | Conversion of Image to user interactive SVGs | Learnt how to build an SVG form wand Image using Front End Web Development technologies | |
| Day-5 16/02/2024 | Short Assessment on the previous weeks. | ——— | |
| Day-6 17/02/2024 | Evaluation of the work done | ——— | |

# WEEKLY REPORT

## WEEK – 7 (From Dt 12/02/2024 to Dt 17/02/2024 )

**Objective of the Activity Done:** Conversion of Image to  SVGs.

**Detailed Report:**

During the second week of February 2024, the focus remained on mastering the conversion of images into user-interactive SVGs using front-end web development technologies. Daily sessions were dedicated to this activity, allowing participants to deepen their understanding and refine their skills in building SVGs from images.

Through hands-on practice and guidance, We learned how to utilize front-end web development tools and techniques to create dynamic and engaging SVG elements for web applications. We gained proficiency in manipulating SVGs to incorporate interactivity and enhance user experiences effectively.

The repetition of the activity throughout the week provided ample opportunities for us to practice and refine their techniques, ensuring a thorough grasp of the process. By the end of the week, We had honed their skills in building SVGs from images, equipping them with a valuable capability for designing visually appealing and interactive web interfaces.

The week concluded with an evaluation of the work done, likely providing participants with feedback and insights to further improve their SVG development skills. Overall, the week emphasized practical skill development and hands-on learning in front-end web development, contributing us to  growth and expertise in this domain.

## ACTIVITY LOG FOR THE EIGHTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 19/02/2024 | About the automation and the importance of automation | Learnt about the importance of automation | |
| Day-2 20/02/2024 | Applications of automation | Got to know where the automation is used | |
| Day-3 21/02/2024 | Need of automation in the company's projects | Got to know the need of automation in the projects | |
| Day-4 22/02/2024 | Understanding the requirements | Get to know about the requirements | |
| Day-5 23/02/2024 | Collection of information related to the problem statements | ——— | |
| Day-6 24/02/2024 | Evaluation of the Workflow | ——— | |

# WEEKLY REPORT

## WEEK – 8 (From Dt 19/02/2024 to Dt 24/02/2024 )

**Objective of the Activity Done:**  Automation and it's applications, requirements.

**Detailed Report:**

During the third week of February 2024, the focus shifted towards automation and its significance in project management and execution. The week began with an exploration of the importance of automation, providing participants with insights into how automated processes can enhance efficiency, accuracy, and productivity within an organization.

Subsequent sessions delved into the practical applications of automation, illustrating where automation can be implemented to streamline workflows and optimize operations effectively. Participants gained a comprehensive understanding of the various contexts in which automation is utilized across different industries and domains.

The week also emphasized the need for automation within the company's projects, highlighting the specific benefits and advantages it offers in improving project outcomes and meeting objectives efficiently.

Towards the end of the week, attention turned towards understanding project requirements and collecting relevant information related to problem statements. These activities laid the groundwork for effective project planning and implementation, ensuring alignment with project goals and stakeholder expectations.

Overall, the week underscored the importance of automation in driving organizational success and provided participants with the knowledge and insights needed to leverage automation effectively in project management and execution.

## ACTIVITY LOG FOR THE NINTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 26/02/2024 | Concepts of python programming | Data types, loops, functions in python | |
| Day-2 27/02/2024 | Concepts of python programming | Tuples, Dictionaries | |
| Day-3 28/02/2024 | Concepts of python programming | Data Manipulation using python | |
| Day-4 29/02/2024 | Concepts of python for Machine learning | Learnt concepts of python for Machine learning | |
| Day-5 01/03/2024 | Concepts of python for Machine learning | Learnt concepts of python for Machine learning | |
| Day-6 02/03/2024 | Concepts of python for Machine learning | Learnt concepts of python for Machine learning | |

# WEEKLY REPORT

## WEEK – 9 (From Dt 26/02/2024 to Dt 02/03/2024 )

**Objective of the Activity Done:**  Concepts of Python Programming.

**Detailed Report:**

During the final week of February and the beginning of March 2024, the focus shifted towards learning Python programming, particularly in the context of its applications in data manipulation and machine learning. The week commenced with foundational concepts such as data types, loops, and functions in Python, providing participants with a solid understanding of the language's syntax and basic functionalities.

As the week progressed, we delved deeper into Python programming, covering topics such as tuples, dictionaries, and data manipulation techniques. These sessions equipped them with the skills needed to handle and manipulate data efficiently using Python, laying the groundwork for more advanced data analysis and processing tasks.

The latter part of the week was dedicated to exploring Python for machine learning applications. We learned about the specific libraries and tools available in Python for machine learning tasks, as well as fundamental concepts and algorithms essential for building machine learning models.

By the end of the week, we had gained a comprehensive understanding of Python programming, particularly in the context of data manipulation and machine learning applications. These skills are invaluable for professionals in fields such as data science, artificial intelligence, and software development, empowering them to leverage Python for a wide range of analytical and predictive tasks.

## ACTIVITY LOG FOR THE TENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 04/03/2024 | Introduction to openCV | Learnt what is OpenCV | |
| Day-2 05/03/2024 | Applications of OpenCV | Got to the applications of OpenCV in real world. | |
| Day-3 06/03/2024 | IDE, Anaconda, Spyder Configured | Configured all the system requirements. | |
| Day-4 07/03/2024 | Introduction to Image Processing | Learnt about Image, Read and Show | |
| Day-5 08/03/2024 | Video Operation using openCV | Learnt video manipulation using openCV | |
| Day-6 09/03/2024 | Evaluation of the Workflow. | _____ | |

**WEEK – 10 (From Dt 04/03/2024 to Dt 09/03/2024 )**

**Objective of the Activity Done:** Open CV and it's applications, Image processing.

**Detailed Report:**

During the first week of March 2024, the focus shifted towards practical applications in computer vision and image processing, with an emphasis on utilizing the OpenCV library. The week began with an introduction to OpenCV, where we learned about its functionality and importance in computer vision tasks.

As the week progressed, we explored the diverse applications of OpenCV in real-world scenarios, gaining insights into its usage in various fields such as surveillance, healthcare, and autonomous vehicles.

Additionally, system requirements were addressed as we configured their Integrated Development Environment (IDE), Anaconda, and Spyder, ensuring they had the necessary tools for their upcoming tasks.

The week also included an introduction to image processing concepts, covering fundamental operations such as reading and displaying images. We gained an understanding of basic image manipulation techniques, setting the stage for more advanced processing tasks.

Towards the end of the week, focus shifted to video manipulation using OpenCV, expanding the skills to include video processing and analysis. Overall, the week provided us with a solid foundation in OpenCV and image processing, equipping them with essential skills for various computer vision applications.

# ACTIVITY LOG FOR THE ELEVENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 11/03/2024 | OpenCV drawing functions | Learnt about openCV drawing functions | |
| Day-2 12/03/2024 | Adding shapes and text on Video | Learnt how to add shapes and text on Video | |
| Day-3 13/03/2024 | Image operations | cv2.split, cv2.merge, cv2.resize, cv2.add, cv2.addWeighted | |
| Day-4 14/03/2024 | Region of Interest | Learnt about Region of Interest(ROI) | |
| Day-5 15/03/2024 | Image processing | Learnt about image borders & image blending | |
| Day-6 16/03/2024 | Image processing | Learnt about image borders & image blending | |

# WEEKLY REPORT

## WEEK – 11 (From Dt 11/03/2024 to Dt 16/03/2024 )

**Objective of the Activity Done:** Open CV and Functions.

**Detailed Report:**

During the second week of March 2024, the focus remained on practical applications of OpenCV and image processing techniques. The week began with an exploration of OpenCV drawing functions, providing us with the knowledge to create and manipulate shapes and text within images.

As the week progressed, we learned how to enhance videos by adding shapes and text, expanding their skills in video editing and annotation using OpenCV.

The week also covered various image operations such as splitting and merging channels, resizing images, and performing arithmetic operations like addition and blending. We gained a deeper understanding of these operations and their applications in image manipulation. Additionally, the concept of Region of Interest (ROI) was introduced, enabling us to focus on specific areas of interest within an image. This skill is particularly useful for tasks such as object detection and tracking.

Towards the end of the week, we delved into image processing techniques related to image borders and blending, further enriching their repertoire of image manipulation skills. Overall, the week emphasized practical hands-on learning in OpenCV and image processing, equipping us with essential skills for a wide range of computer vision applications.

# ACTIVITY LOG FOR THE TWELFTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 18/03/2024 | Image processing | Object detection using HSV color space | |
| Day-2 19/03/2024 | Image processing | Learnt about simple thresholding and adaptive thresholding | |
| Day-3 20/03/2024 | Image processing | Learnt about Edge detection and canny edge detection, Image smoothing | |
| Day-4 21/03/2024 | Image processing | Learnt about contours, contour moments and convexHull | |
| Day-5 22/03/2024 | Asssessment on the image operations. | —— | |
| Day-6 23/03/2024 | Evaluation on the previous learnings | —— | |

# WEEKLY REPORT

## WEEK – 12 (From Dt 18/03/2024 to Dt 23/03/2024 )

**Objective of the Activity Done:** Image Processing.

**Detailed Report:**

During the third week of March 2024, the focus remained on advanced image processing techniques, expanding participants' skills in computer vision. The week began with an exploration of object detection using the HSV color space, providing participants with insights into detecting and identifying objects based on their color properties.

As the week progressed, participants delved into thresholding techniques, including simple thresholding and adaptive thresholding. These techniques enable the segmentation of images based on pixel intensity values, facilitating further analysis and processing.

Additionally, participants learned about edge detection and Canny edge detection, along with image smoothing techniques. These methods are essential for identifying edges and contours within images, paving the way for more sophisticated image analysis tasks.

Further, participants were introduced to contours, contour moments, and convex hulls, enabling them to extract and analyze shapes and structures within images effectively.

The week concluded with an evaluation of the previous learnings, providing participants with an opportunity to review and reinforce their understanding of the concepts and techniques covered throughout the week. Overall, the week emphasized practical hands-on learning in advanced image processing, equipping participants with the skills needed for various computer vision applications.

## ACTIVITY LOG FOR THE THIRTEENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 25/03/2024 | Project assignment | Assigned to the project and initiated the project | |
| Day-2 26/03/2024 | Project Development | Implemented the learnings of the openCV in the project | |
| Day-3 27/03/2024 | Project Development | Implemented the learnings of the openCV in the project | |
| Day-4 28/03/2024 | Project Development | Implemented the learnings of the openCV in the project | |
| Day-5 29/03/2024 | Project Development | Implemented the learnings of the openCV in the project | |
| Day-6 30/03/2024 | Project Development | Implemented the learnings of the openCV in the project | |

# WEEKLY REPORT

## WEEK – 13 (From Dt 25/03/2024 to Dt 30/03/2024)

**Objective of the Activity Done:** Project Development operations.

**Detailed Report:**

During the final week of March 2024, the focus shifted towards practical application as participants were assigned to a project and began its development. The week commenced with the assignment of the project, where we were tasked with applying their knowledge and skills acquired throughout the training period.

As the week progressed, participants actively engaged in project development, implementing their learnings of OpenCV in the project. We leveraged their understanding of image processing techniques, object detection, edge detection, and contour analysis to address the requirements of the project effectively.

Each day was dedicated to project development, allowing us to apply their knowledge iteratively and make progress towards project completion. Through hands-on implementation, participants gained valuable practical experience and honed their skills in using OpenCV for real-world applications.

By the end of the week, we had made significant strides in project development, demonstrating their ability to translate theoretical knowledge into practical solutions. The week marked a culmination of their learning journey, showcasing their proficiency in OpenCV and image processing through the successful execution of the project.

# ACTIVITY LOG FOR THE FOURTEENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 01/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-2 02/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-3 03/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-4 04/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-5 05/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-6 06/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |

**Objective of the Activity Done:** Debugging and project Development.

**Detailed Report:**

During the first week of April 2024, the focus remained on project development, with an emphasis on debugging and refinement. Each day was dedicated to debugging and furthering the development of the project, as participants actively sought guidance and feedback from their mentors or project guides.

Participants diligently incorporated the inputs and suggestions provided by their guides into the project, addressing any issues or errors encountered during the development process. This iterative approach allowed them to identify and rectify bugs, ensuring the project's functionality and performance met the desired standards.

Through this process, participants gained valuable experience in debugging techniques and honed their problem-solving skills in the context of real-world project development. They also had the opportunity to apply their knowledge and skills in OpenCV and image processing to overcome challenges and optimize the project's outcomes.

Overall, the week underscored the importance of continuous improvement and collaboration in project development, equipping participants with valuable insights and experiences that would contribute to their growth as proficient developers in the field of computer vision and image processing.

## ACTIVITY LOG FOR THE FIFTEENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 08/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-2 09/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-3 10/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-4 11/04/2024 | Debugging & project Development | Tested the code on manual drawings | |
| Day-5 12/04/2024 | Debugging & project Development | Tested the code on manual drawings | |
| Day-6 13/04/2024 | Evaluation of the workflow | _____ | |

# WEEKLY REPORT

## WEEK – 15 (From Dt 08/04/2024 to Dt 13/04/2024 )

**Objective of the Activity Done:** Debugging and project Development

**Detailed Report:**

During the second week of April 2024, the focus remained on the refinement and development of the project, with a continued emphasis on debugging. Participants continued to collaborate with their project guides, taking their inputs to identify and address any remaining issues within the project code.

Throughout the week, participants diligently worked on debugging and further development, ensuring that the project met the specified requirements and functioned as intended. By actively engaging in this process, participants gained practical experience in troubleshooting and refining software solutions.

On the 11th of April, participants took a significant step in the project development process by testing the code on manual drawings. This allowed them to assess the performance and accuracy of the project implementation in real-world scenarios, identifying any potential areas for improvement.

As the week progressed, participants also took time to evaluate the workflow of the project development process, reflecting on their progress and identifying areas of strength and areas for improvement. This reflective practice contributed to their overall learning and growth as developers in the field of computer vision and image processing.

Overall, the week was characterized by dedicated efforts towards project refinement, collaboration with project guides, and the assessment of project performance, all of which contributed to the participants' continued development and learning in the domain of computer vision.

# ACTIVITY LOG FOR THE SIXTEENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 15/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-2 16/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-3 17/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-4 18/04/2024 | Debugging & project Development | Tested the code on manual drawings | |
| Day-5 19/04/2024 | Short Assessment on the Previous work | —————— | |
| Day-6 20/04/2024 | Evaluation of the workflow | —————— | |

# WEEKLY REPORT

## WEEK – 16 (From Dt 15/04/2024 to Dt 20/04/2024 )

**Objective of the Activity Done:** Debugging and project Development

**Detailed Report:**

During the third week of April 2024, the focus remained on debugging and advancing the project's development. Participants continued to collaborate closely with their guides, incorporating their guidance to address any remaining issues and refine the project's functionality.

Throughout the week, participants diligently implemented the inputs provided by their guides, ensuring that the project met the required standards and specifications. This iterative process of debugging and development helped to enhance the project's performance and reliability.

On the 18th of April, participants conducted manual tests on the code, specifically focusing on its functionality when applied to manual drawings. This practical testing provided valuable insights into the project's effectiveness and identified areas for further improvement.

The week concluded with a short assessment on the previous work, allowing participants to review and reinforce their understanding of the concepts and techniques applied in the project. This assessment likely helped to identify any gaps in knowledge or areas needing additional attention.

On the 20th of April, the week culminated in an evaluation of the workflow, likely involving a comprehensive review of the project's progress and the identification of any remaining tasks or issues requiring resolution. Overall, the week emphasized the importance of thorough testing, continuous improvement, and collaboration in project development, preparing participants for the final stages of project completion.

## ACTIVITY LOG FOR THE SEVENTEENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1 22/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-2 23/04/2024 | Debugging & project Development | Took the inputs from the guide to debug and develop the project | |
| Day-3 24/04/2024 | Completion and evaluation of the project | _____ | |
| Day-4 25/04/2024 | How to prepare report for a Project | Learnt how to prepare a report for the project | |
| Day-5 26/04/2024 | Documentation of the project | _____ | |
| Day-6 27/04/2024 | Rectifying the errors of the report | _____ | |

# WEEKLY REPORT

## WEEK – 17 (From Dt 22/04/2024 to Dt 27/04/2024 )

**Objective of the Activity Done:** Debugging and project Development, Document Preparation.

**Detailed Report:**

During the final week of April 2024, the focus remained on finalizing the project and preparing documentation. Participants continued to collaborate closely with their guides, addressing any remaining issues and refining the project's functionality through debugging and development.

On the 24th of April, the project reached completion, marking the culmination of weeks of hard work and dedication. Participants conducted a comprehensive evaluation of the project, ensuring that it met the required standards and specifications.

Following the completion of the project, attention shifted towards documenting the project's development process. Participants learned how to prepare a report for the project, gaining valuable skills in effectively communicating project objectives, methodologies, and outcomes.

On the 26th of April, participants engaged in the documentation of the project, detailing its various aspects, including the problem statement, methodology, results, and conclusions.

The week concluded with a focus on rectifying any errors or inconsistencies in the project report. Participants diligently reviewed and refined the report, ensuring its accuracy, clarity, and coherence.

Overall, the week emphasized the importance of effective communication and documentation in project management, providing participants with valuable skills and experiences that would enhance their ability to convey and present their work effectively.

# ACTIVITY LOG FOR THE EIGHTEENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome | Person In-Charge Signature |
|---|---|---|---|
| Day-1<br><br>29/04/2024 | Overall Evaluation | _____ | |
| Day-2<br><br>30/04/2024 | Performance feedback | _____ | |
| | | | |
| | | | |
| | | | |

# WEEKLY REPORT

## WEEK – 18 (From Dt 29/04/2024 to Dt 30/04/2024 )

**Objective of the Activity Done:** Evaluation, Feedback

**Detailed Report:**

During the final week of April 2024, the focus shifted towards overall evaluation and performance feedback. Participants engaged in a comprehensive evaluation of their progress and achievements throughout the project, reflecting on their learning outcomes, challenges faced, and areas of growth. This evaluation likely provided valuable insights into their strengths and areas for improvement, helping to inform their future learning and development goals. On the last day of the week, participants received performance feedback, which provided them with constructive insights into their performance and areas where they excelled or needed improvement. This feedback would help participants to further refine their skills and enhance their capabilities for future projects and endeavours.

# CHAPTER 5: OUTCOMES DESCRIPTION

**Describe the work environment you have experienced**

During my internship at The Web Blinders, I had the privilege of experiencing a dynamic and enriching work environment that fostered both professional growth and personal development. The work environment at The Web Blinders can be described as follows:

**Collaborative Culture:** The Web Blinders cultivates a collaborative work culture where interns and employees collaborate seamlessly. Regular team meetings, brainstorming sessions, and group projects encourage open communication and the sharing of ideas.

**Supportive Team:** The Web Blinders team comprises experienced professionals who are supportive, approachable, and eager to guide interns. They readily provided assistance and valuable insights whenever I faced challenges or sought clarification.

**Structured Learning:** The internship program is thoughtfully structured with well-defined modules and learning objectives. The organized curriculum, along with detailed learning resources, ensured a comprehensive understanding of each topic.

**Flexibility and Autonomy:** Despite the structured framework, there's ample flexibility for interns to explore areas of interest within the modules. This autonomy allowed me to dive deeper into topics that aligned with my career aspirations.

**Hands-On Learning:** The Web Blinders emphasizes hands-on learning, providing practical exercises and coding challenges. This approach facilitated the application of theoretical concepts to real-world scenarios, enhancing our problem-solving skills.

**Continuous Feedback:** Regular feedback sessions with mentors and trainers were instrumental in gauging my progress. Constructive feedback guided my improvement and enabled me to track my skill development.

**Networking Opportunities:** The Web Blinders facilitated networking opportunities with fellow interns and professionals through online platforms. Engaging in discussions, sharing

experiences, and connecting with industry experts enriched the internship experience.

**Inclusive Environment:** The work environment at The Web Blinders is inclusive and diverse, fostering a sense of belonging among interns. The organization's commitment to equal access to quality education reflects in its approach to fostering a welcoming atmosphere

**Technology Integration:** The use of advanced technologies, such as AI-enabled platforms, showcased The Web Blinders' commitment to staying at the forefront of educational innovation. It provided interns with exposure to industry-relevant tools.

**Professional Development:** Beyond technical skills, the internship at The Web Blinders offered opportunities to enhance soft skills, such as communication, teamwork, and time management. These skills are crucial for a well-rounded professional.

In summary, the work environment at The Web Blinders offered a perfect blend of structured learning, practical application, collaborative spirit, and supportive mentorship. This environment not only facilitated the acquisition of technical skills but also nurtured a growth mindset that will undoubtedly benefit me in my future endeavors.

**Describe the real time technical skills you have acquired**

During my internship at The Web Blinders, I had the opportunity to acquire a range of real-time technical skills that are invaluable in the field of AI/ML. The hands-on experience and practical application of these skills were essential in enhancing my proficiency and confidence. Here are the key technical skills I gained:

**Computer Vision Fundamentals:** I'd gained a deep understanding of computer vision principles, including image recognition, object detection, semantic segmentation, and feature extraction.

**Machine Learning and Deep Learning:** I'd developed skills in implementing and fine-tuning machine learning models, particularly convolutional neural networks (CNNs), for image analysis tasks. This involves data preprocessing, model training, and evaluation.

**Image Processing Techniques:** I'd learned various image processing techniques such as edge detection, filtering, and morphological operations, which are essential for preprocessing images before feeding them into computer vision algorithms.

**Programming Skills:** Working on the project would enhance the programming skills, especially in languages commonly used for machine learning and computer vision such as Python. I'd became proficient in libraries like TensorFlow, PyTorch, OpenCV, and scikit-learn.

**Data Handling and Preprocessing:** I'd acquired skills in handling and preprocessing image data, including data augmentation techniques to improve model generalization and robustness.

**Optimization Techniques:** I'd learned optimization techniques to improve the performance of computer vision algorithms, such as hyperparameter tuning, model pruning, and transfer learning.

**Version Control:** I likely use version control systems like Git to manage the project codebase, collaborate with team members, and track changes effectively.

**Software Development Practices:** I'd gained experience in software development practices

such as code documentation, modularization, testing, and debugging, ensuring the reliability and maintainability of the project.

**Cloud Computing:** If I leverage cloud-based services for scalability and computational resources, I'd learned how to deploy and manage applications on cloud platforms like AWS, Google Cloud, or Microsoft Azure.

**Quality Assurance and Testing:** I'd developed skills in quality assurance and testing methodologies specific to computer vision applications, ensuring the accuracy and reliability of the image-to-SVG conversion system.

**Project Management:** I'd gained experience in project management practices such as task prioritization, time management, and communication skills while working on a complex technical project.

I believe that these technological developments have the potential to make me a more effective trainer. They can help me to create more engaging and effective training experiences for my trainees. I am excited to explore how I can use these technologies to improve my training skills in the future.

**Describe the managerial skills you have acquired**

My internship experience at The Web Blinders provided me with not only technical expertise but also a range of valuable managerial skills that are crucial for effective teamwork, project management, and professional growth. Here are the key managerial skills I acquired:

**Time Management:** Balancing the structured modules, interactive sessions, and assignments required efficient time management. I learned to prioritize tasks, allocate time for learning and practical exercises, and meet deadlines effectively.

**Organizational Skills:** Navigating through the comprehensive curriculum required organization. I learned to manage study materials, notes, and project files systematically, enhancing my ability to stay organized in complex projects.

**Communication Skills:** Engaging in doubt clarification sessions, collaborative exercises, and discussions honed my communication skills. Clear and effective communication with peers and mentors was essential for understanding concepts and resolving doubts.

**Team Collaboration:** Collaborative problem-solving exercises and group projects improved my teamwork skills. I learned how to collaborate, share ideas, and leverage diverse strengths to achieve common goals.

**Adaptability:** Adapting to the virtual learning environment and flexible internship structure improved my adaptability. I learned to navigate through different tools and platforms, an essential skill in the digital age.

**Leadership Skills:** Collaborative game design exercises provided insights into leadership roles. I learned how to guide a team, distribute tasks, and ensure effective coordination for a successful project.

**Feedback Incorporation:** Regular feedback sessions with mentors helped me understand areas for improvement. Learning to incorporate constructive feedback positively impacted my

professional growth.

**Initiative Taking:** Exploring topics beyond the curriculum and independently seeking answers to questions showcased initiative. I learned to take ownership of my learning journey and proactively seek knowledge.

**Problem Prioritization:** Facing coding challenges and assignments required prioritization. I learned to evaluate tasks based on urgency and importance, optimizing my productivity.

**Critical Thinking:** Analyzing complex problems and designing solutions improved my critical thinking skills. I learned to approach challenges from different angles and make informed decisions.

**Project Management:** Collaborative projects and game design exercises introduced project management aspects. I learned about task allocation, timeline management, and coordination for successful project completion.

These managerial skills complemented the technical skills acquired during my internship, making me a more well-rounded professional. The Web Blinders internship not only enriched my technical knowledge but also equipped me with essential skills for effective collaboration, communication, and professional development.

**Describe how you could improve your communication skills**

Improving communication skills is a valuable endeavor, especially in a professional context like an AI/ML virtual internship. Here's a plan on how to enhance various aspects of communication skills:

**Oral communication**: I could improve my oral communication skills by practicing speaking more often. I could also take public speaking classes or join a Toastmasters club.

**Written communication:** I could improve my written communication skills by reading more and writing more often. I could also take a writing class or join a writing group.

**Conversational abilities**: I could improve my conversational abilities by listening more and talking less. I could also practice active listening skills and try to understand the other person's point of view.

**Confidence levels while communicating:** I could improve my confidence levels while communicating by practicing speaking in front of a mirror or with a friend. I could also remind myself that everyone makes mistakes and that it's okay to be imperfect.

**Anxiety management:** I could manage my anxiety by taking deep breaths, visualizing myself succeeding, and practicing mindfulness. I could also talk to a therapist or counselor if I need additional help.

**Understanding others:** I could improve my understanding of others by asking clarifying questions, being open-minded, and trying to see things from their perspective. I could also read books and articles about communication and interpersonal skills.

**Getting understood by others:** I could improve my ability to get understood by others by being clear and concise in my communication. I could also use active listening skills and pay attention to body language.

**Extempore speech:** I could improve my ability to give extempore speeches by practicing speaking in front of a mirror or with a friend. I could also take a public speaking class or join a Toastmasters club.

**Ability to articulate the key points:** I could improve my ability to articulate the key points of an argument or idea by practicing summarizing and paraphrasing. I could also use visuals and examples to help illustrate my points.

**Closing the conversation:** I could improve my ability to close a conversation by summarizing the key points that were discussed and asking if there are any other questions. I could also thank the other person for their time and let them know that I enjoyed the conversation.

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

**Group discussions:** I could enhance my abilities in group discussions by being an active listener, asking clarifying questions, and contributing my own ideas in a constructive way. I could also practice summarizing the key points of the discussion and making sure that everyone is on the same page.

**Participation in teams:** I could enhance my abilities in participation in teams by being reliable, trustworthy, and supportive. I could also be willing to share my ideas and opinions, and be open to feedback from others.

**Contribution as a team member:** I could enhance my abilities in contribution as a team member by being proactive, taking initiative, and being willing to go the extra mile. I could also be willing to help out my teammates, and be respectful of their ideas and opinions.

**Leading a team/activity:** I could enhance my abilities in leading a team/activity by being organized, decisive, and communicative. I could also be able to motivate and inspire my team, and be able to delegate tasks effectively.

I am confident that by working on these areas, I can enhance my abilities in group discussions, participation in teams, contribution as a team member, and leading a team/activity.

Here are some additional tips for enhancing my abilities in these areas:

- **Be prepared**: Come to group discussions and team meetings prepared with your ideas and opinions. This will show that you are taking the discussion seriously and that you are willing to contribute.

- **Be respectful:** Listen to the ideas and opinions of others with respect, even if you disagree with them. This will show that you are open-minded and that you value the input of others.

- **Be collaborative:** Be willing to work with others to achieve common goals. This will show that you are a team player and that you are committed to the success of the team.

- **Be positive:** Be positive and enthusiastic about the work that you are doing. This will help to create a positive and productive work environment.

**Describe the technological developments you have observed and relevant to the subject area of training**

During my AI/ML virtual internship, I've observed several technological developments that are highly relevant to the subject area of training, particularly in the realm of digital technologies and their impact on AI and ML. Here are some key developments:

**Advanced Image Recognition Algorithms:** Computer vision algorithms have become more sophisticated in recognizing objects, shapes, and patterns within images. This has led to more accurate and reliable conversion of images into vector graphics.

**Machine Learning Models:** Machine learning techniques, particularly deep learning models like convolutional neural networks (CNNs), have shown remarkable performance in image recognition tasks. These models can be trained to identify different elements in an image and map them to SVG elements.

**Semantic Segmentation:** Semantic segmentation techniques allow computers to understand the context and semantics of different parts of an image. This capability is particularly useful for separating objects from the background and converting them into SVG paths.

**Generative Adversarial Networks (GANs):** GANs have been explored for image-to-SVG conversion by generating vector representations of images. These networks consist of a generator and a discriminator, where the generator learns to create SVG outputs that are indistinguishable from real SVG images.

**Optical Character Recognition (OCR):** For images containing text, OCR technology plays a crucial role in extracting text from raster images and converting it into vector format. This is essential for maintaining the scalability and clarity of text elements in SVG files.

**Automation Tools:** Various software tools and libraries have emerged that leverage these technologies to automate the conversion process. These tools provide user-friendly interfaces for uploading images and generating corresponding SVG files automatically.

**Cloud – based Services:** Cloud-based platforms offer scalable solutions for image-to-SVG

conversion, leveraging the computational power of cloud servers to process large volumes of images efficiently.

**Quality Assessment and Improvement:** With advancements in computer vision, it's also possible to assess the quality of generated SVG files automatically. This includes evaluating factors such as fidelity to the original image, smoothness of curves, and overall visual fidelity.

**Integration with some Design Tools:** Some computer vision solutions are integrated directly into popular design tools, allowing designers to seamlessly convert raster images into SVG format within their existing workflows.

Overall, these technological developments have significantly improved the efficiency and accuracy of automating the process of converting images into SVG formats using computer vision techniques.

# PHOTOS & VIDEO LINKS
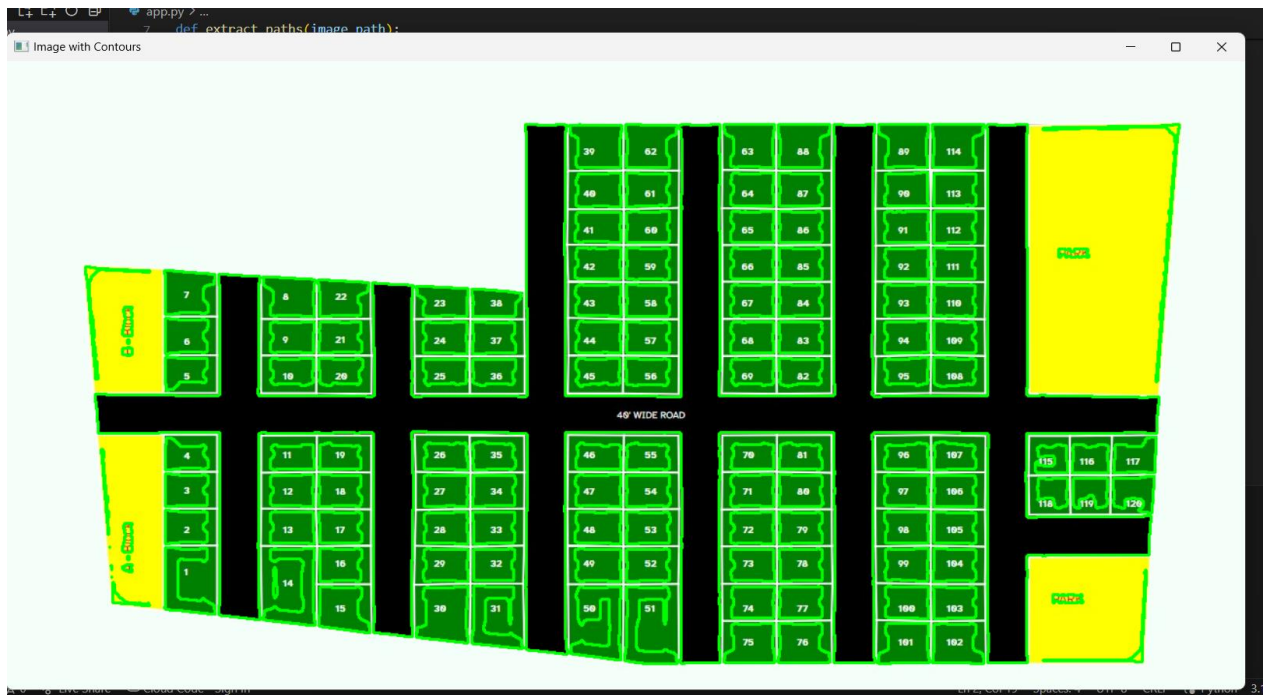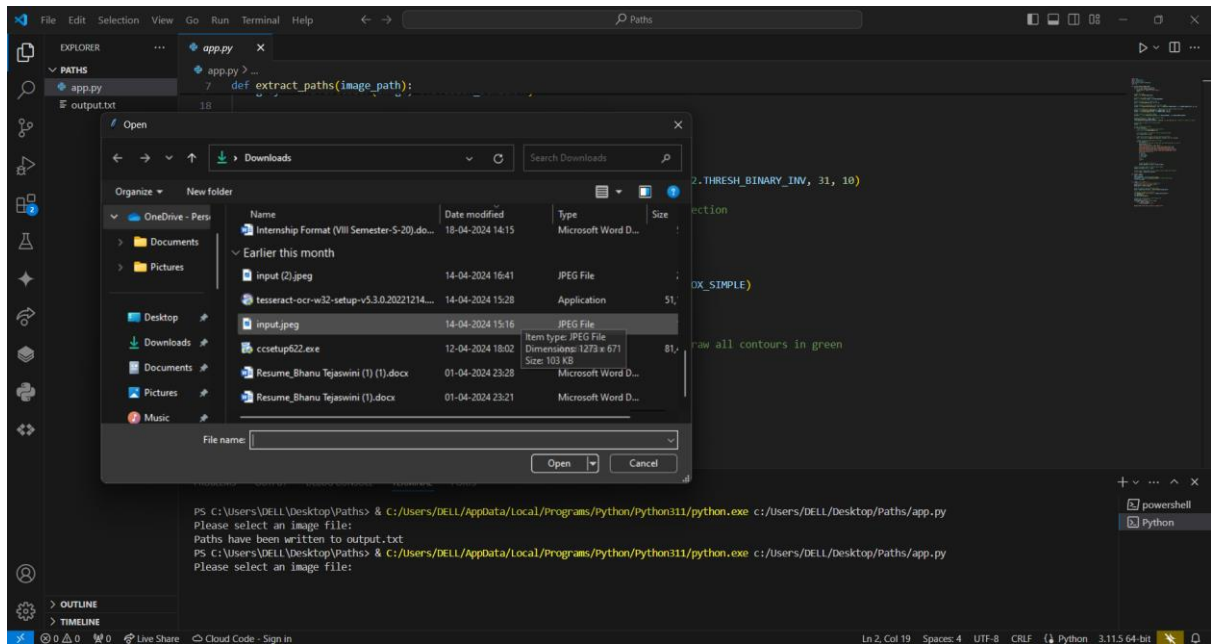
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PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS