

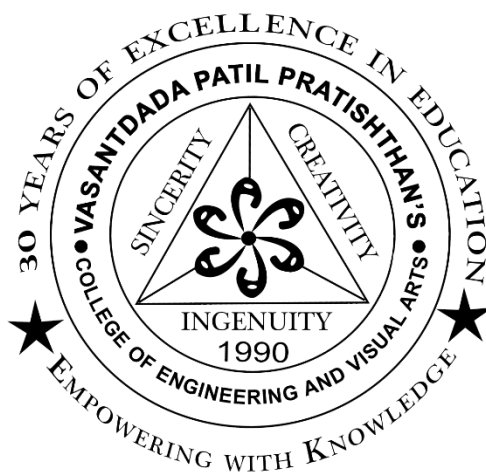


Vasantdada Patil Pratisthan's College of Engineering & Visual Arts,  
Sion, Mumbai-22

Department of Computer Engineering

# PROJECT- DIARY

Academic Year 2021-2022



University of Mumbai



(UNIVERSITY OF MUMBAI)

2021-2022



## GROUP DETAILS

Group No: 2

Group Members:	Email Address	Mob No.
1 Chinmay Gaikawad	vu1f1819058@pvppcoe.ac.in	9422820783
2 Suyash Salvi	vu1f1819060@pvppcoe.ac.in	9969300248
3 Pratik Maurya	vu1f1819032@pvppcoe.ac.in	9137796515

Project Title: VISUAL INSPECTION FOR INDUSTRIES

Project Type (In-House/Out-House): In-House

Company Name: None

Company Address: None

Internal Guide Name:

Prof. Prajakta Khelkar

External Guide Name:

\_\_\_\_\_

Designation: \_\_\_\_\_

Email Id: \_\_\_\_\_

Mobile No: \_\_\_\_\_



## Project Work Progress Report

Group No. 2

Week: 1

From 10/08/2021

To 17/08/2021

### Report on the activities related to the project

In the first week, we held meetings for deciding methodology for our project.

After discussion we have created development plan to be followed while progressing with project.

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

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**Project Guide**  
(Internal)

**Project  
Coordinator**

**H.O.D**  
(COMP)



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## Project Work Progress Report

Group No. 2

Week: 2

From 15/09/2021

To 20/09/2021

### Report on the activities related to the project

In the second week, we held meetings for finding a standard product for the Visual inspection system.

We agreed on standard biscuits. And hence, we also created dataset for our project

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

**Project Guide**  
(Internal)

**Project  
Coordinator**

**H.O.D**  
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## Project Work Progress Report

Group No. 2

Week: 3

From 27/09/2021

To 01/10/2021

### Report on the activities related to the project

In previous week we have created dataset for our project. In this week, we have cleaned our data and converted in standard format.

Also, we have split our data in two set required for our project.

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

Project Guide  
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Project  
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## Project Work Progress Report

Group No. 2

Week: 4

From 07/10/2021

To 14/10/2021

### Report on the activities related to the project

In forth week, we have chosen algorithm for our model, also we have connected our dataset with our algorithm.

We have trained our model for a standard product and also verified accuracy.

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

Project Guide  
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Project  
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## Project Work Progress Report

Group No. 2

Week: 5

From 11/01/2022

To 15/01/2022

Report on the activities related to the project

In fifth week, as we are suggested to look for other algorithms for our project by our Project Guide and by our Project Coordinator, we list out some algorithms that can be used for image detection.

Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

Suggestions/changes:-

Project Guide  
(Internal)

Project  
Coordinator

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## Project Work Progress Report

Group No. 2

Week: 6

From 17/01/2022

To 22/01/2022

### Report on the activities related to the project

In previous week we list out all the possible algorithms that could be used for Image detection.

In this week, we made some research on those algorithms and finally concluded that CNN works better for real time object detection.

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

Project Guide  
(Internal)

Project  
Coordinator

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## Project Work Progress Report

Group No. 2

Week: 7

From 28/01/2022

To 03/02/2022

### Report on the activities related to the project

In this week, we have extended our dataset, we have cleaned our data and converted in standard format.

We did this step to improve our models accuracy.

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

Project Guide  
(Internal)

Project  
Coordinator

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## Project Work Progress Report

Group No. 2

Week: 8

From 08/02/2022

To 11/02/2022

### Report on the activities related to the project

In this week, we have trained our model again after connecting our extended dataset.

Our previously trained model had accuracy of 89% and we successfully improved our accuracy from 89% to 96%.

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

Project Guide  
(Internal)

Project  
Coordinator

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## Project Work Progress Report

Group No. 2

Week: 9

From 14/02/2022

To 22/02/2022

### Report on the activities related to the project

In previous week, we have trained our model with 96% accuracy.

In this week, we have created object detection model.

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

Project Guide  
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Project  
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## Project Work Progress Report

Group No. 2

Week: 10

From 23/02/2022

To 01/03/2022

### Report on the activities related to the project

In this week, we completed our object detection model with poor accuracy and we decided on improving it.

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

Project Guide  
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Project  
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## Project Work Progress Report

Group No. 2

Week: 11

From 02/03/2022

To 08/03/2022

Report on the activities related to the project

The object detection model was complete and was capable of detecting our target object.

This got our project to the final phase.

Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

Suggestions/changes:-

Project Guide  
(Internal)

Project  
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## Project Work Progress Report

Group No. 2

Week: 12

From 09/03/2022

To 16/03/2022

Report on the activities related to the project

The detector program was made.

It was a python program for detecting object using created model.

Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

Suggestions/changes:-

Project Guide  
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## Project Work Progress Report

Group No. 2

Week: 13

From 18/03/2022

To 24/03/2022

### Report on the activities related to the project

Here we integrated all the outputs and produced the required output for the project.

The faulty objects were separated from the perfect ones.

### Remarks of Project Guide:

☐

Excellent

☐

Good

☐

Satisfactory

☐

Poor

### Suggestions/changes:-

Project Guide  
(Internal)

Project  
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