**WPR -1**

**Amity School of Engineering & Technology**

Project ID - 46

Project Area – Computer Vision and Image Processing

Date- 16th Dec 2020 to 22nd Dec 2020

B. Tech IT (VIII Semester)

Students Weekly Progress Report (WPR) For Even Semester of session 2020-21

|  |  |
| --- | --- |
| **To be filled by Students** |  |
| Students Name | 1. Shubham Pandey 2. Shreya Saumya 3. Deboshri Das |
| Roll no. | 1. 7090 2. 7112 3. 7115 |
| Enrollment no. | 1. A2305317090  2. A2305317112  3. A2305317115 |
| Project Title finalized, if Yes, give name, if NO, give reason | Yes, it has been finalized.  Topic: Drone Surveillance System for Traffic Management. |
| Synopsis submitted | Yes |
| Literature review | Studied 6 papers |
| Technical & Economical Feasibility |  |
| Bill of Material | 13,500/- |
| Project Progress Schedule (PERT Chart) |  |
| Design of critical components |  |
| Fabrication work (give %) | 90 |
| Experimental work (give %) | 10 |
| Result and Analysis |  |
| Report writing |  |
| Signature of students | Shubham Pandey  Shreya Saumya  Deboshri Das |

Work done in this week:

We have worked on the literature review of the project and studied about the algorithms and techniques to be used for its implementation.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |

**WPR -2**

**Amity School of Engineering & Technology**

Project ID -46

Project Area – Computer Vision and Image Processing

Date- 23rd Dec 2020 to 29th Dec 2020

B. Tech IT (VIII Semester)

Students Weekly Progress Report (WPR) For Even Semester of session 2020-21

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| --- | --- |
| **To be filled by Students** |  |
| Students Name | 1. Shubham Pandey 2. Shreya Saumya 3. Deboshri Das |
| Roll no. | 1. 7090 2. 7112 3. 7115 |
| Enrollment no. | 1. A2305317090  2. A2305317112  3. A2305317115 |
| Project Title finalized, if Yes, give name, if NO, give reason | Yes, it has been finalized.  Topic: Drone Surveillance System for Traffic Management. |
| Synopsis submitted | Yes |
| Literature review |  |
| Technical & Economical Feasibility |  |
| Bill of Material |  |
| Project Progress Schedule (PERT Chart) |  |
| Design of critical components |  |
| Fabrication work (give %) | 25 |
| Experimental work (give %) | 75 |
| Result and Analysis |  |
| Report writing |  |
| Signature of students | Shubham Pandey  Shreya Saumya  Deboshri Das |

Work done in this week:

We have worked on understanding the functionalities of the drone and sending commands to it through the python program.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |

**WPR -3**

**Amity School of Engineering & Technology**

Project ID -46

Project Area – Computer Vision and Image Processing

Date- 30th Dec 2020 to 7th Jan 2021

B. Tech IT (VIII Semester)

Students Weekly Progress Report (WPR) For Even Semester of session 2020-21

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| --- | --- |
| **To be filled by Students** |  |
| Students Name | 1. Shubham Pandey 2. Shreya Saumya 3. Deboshri Das |
| Roll no. | 1. 7090 2. 7112 3. 7115 |
| Enrollment no. | 1. A2305317090  2. A2305317112  3. A2305317115 |
| Project Title finalized, if Yes, give name, if NO, give reason | Yes, it has been finalized.  Topic: Drone Surveillance System for Traffic Management. |
| Synopsis submitted | Yes |
| Literature review |  |
| Technical & Economical Feasibility |  |
| Bill of Material |  |
| Project Progress Schedule (PERT Chart) |  |
| Design of critical components |  |
| Fabrication work (give %) |  |
| Experimental work (give %) |  |
| Result and Analysis |  |
| Report writing |  |
| Signature of students | Shubham Pandey  Shreya Saumya  Deboshri Das |

Work done in this week:

We have worked on accessing the video feeds of the drone and displaying the same on the screen to the user.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |

**WPR -4**

**Amity School of Engineering & Technology**

Project ID -46

Project Area – Computer Vision and Image Processing

Date- 8th Jan 2021 to 14th Jan 2021

B. Tech IT (VIII Semester)

Students Weekly Progress Report (WPR) For Even Semester of session 2020-21

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| --- | --- |
| **To be filled by Students** |  |
| Students Name | 1. Shubham Pandey 2. Shreya Saumya 3. Deboshri Das |
| Roll no. | 1. 7090 2. 7112 3. 7115 |
| Enrollment no. | 1. A2305317090  2. A2305317112  3. A2305317115 |
| Project Title finalized, if Yes, give name, if NO, give reason | Yes, it has been finalized.  Topic: Drone Surveillance System for Traffic Management. |
| Synopsis submitted | Yes |
| Literature review |  |
| Technical & Economical Feasibility |  |
| Bill of Material |  |
| Project Progress Schedule (PERT Chart) |  |
| Design of critical components |  |
| Fabrication work (give %) |  |
| Experimental work (give %) |  |
| Result and Analysis |  |
| Report writing |  |
| Signature of students | Shubham Pandey  Shreya Saumya  Deboshri Das |

Work done in this week:

We have worked on implementing the vehicle detection on the drone feed using haarcascades.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |

**WPR -5**

**Amity School of Engineering & Technology**

Project ID -46

Project Area – Computer Vision and Image Processing

Date- 15th Jan 2021 to 21st Jan 2021

B. Tech IT (VIII Semester)

Students Weekly Progress Report (WPR) For Even Semester of session 2020-21

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| --- | --- |
| **To be filled by Students** |  |
| Students Name | 1. Shubham Pandey 2. Shreya Saumya 3. Deboshri Das |
| Roll no. | 1. 7090 2. 7112 3. 7115 |
| Enrollment no. | 1. A2305317090  2. A2305317112  3. A2305317115 |
| Project Title finalized, if Yes, give name, if NO, give reason | Yes, it has been finalized.  Topic: Drone Surveillance System for Traffic Management. |
| Synopsis submitted | Yes |
| Literature review |  |
| Technical & Economical Feasibility |  |
| Bill of Material |  |
| Project Progress Schedule (PERT Chart) |  |
| Design of critical components |  |
| Fabrication work (give %) |  |
| Experimental work (give %) |  |
| Result and Analysis |  |
| Report writing |  |
| Signature of students | Shubham Pandey  Shreya Saumya  Deboshri Das |

Work done in this week:

We have worked on the implementation of python project for vehicle tracking.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |

**WPR -6**

**Amity School of Engineering & Technology**

Project ID -46

Project Area – Computer Vision and Image Processing

Date- 22nd Jan 2021 to 28th Jan 2021

B. Tech IT (VIII Semester)

Students Weekly Progress Report (WPR) For Even Semester of session 2020-21

|  |  |
| --- | --- |
| **To be filled by Students** |  |
| Students Name | 1. Shubham Pandey 2. Shreya Saumya 3. Deboshri Das |
| Roll no. | 1. 7090 2. 7112 3. 7115 |
| Enrollment no. | 1. A2305317090  2. A2305317112  3. A2305317115 |
| Project Title finalized, if Yes, give name, if NO, give reason | Yes, it has been finalized.  Topic: Drone Surveillance System for Traffic Management. |
| Synopsis submitted | Yes |
| Literature review |  |
| Technical & Economical Feasibility |  |
| Bill of Material | 13,500/- |
| Project Progress Schedule (PERT Chart) |  |
| Design of critical components |  |
| Fabrication work (give %) |  |
| Experimental work (give %) |  |
| Result and Analysis |  |
| Report writing |  |
| Signature of students | Shubham Pandey  Shreya Saumya  Deboshri Das |

Work done in this week:

We Implemented a Python program to use the pre-trained Yolo v3 weights so that the weights can be used by the program to identify the vehicles.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |

**WPR -7**

**Amity School of Engineering & Technology**

Project ID -46

Project Area – Computer Vision and Image Processing

Date- 29th Jan 2021 to 04th Feb 2021

B. Tech IT (VIII Semester)

Students Weekly Progress Report (WPR) For Even Semester of session 2020-21

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| **To be filled by Students** |  |
| Students Name | 1. Shubham Pandey 2. Shreya Saumya 3. Deboshri Das |
| Roll no. | 1. 7090 2. 7112 3. 7115 |
| Enrollment no. | 1. A2305317090  2. A2305317112  3. A2305317115 |
| Project Title finalized, if Yes, give name, if NO, give reason | Yes, it has been finalized.  Topic: Drone Surveillance System for Traffic Management. |
| Synopsis submitted | Yes |
| Literature review |  |
| Technical & Economical Feasibility |  |
| Bill of Material | 13,500/- |
| Project Progress Schedule (PERT Chart) |  |
| Design of critical components |  |
| Fabrication work (give %) |  |
| Experimental work (give %) |  |
| Result and Analysis |  |
| Report writing |  |
| Signature of students | Shubham Pandey  Shreya Saumya  Deboshri Das |

Work done in this week:

We Implemented a Python program to detect vehicles using the pre-trained Yolo Weights. Using the OpenCV, tenserflow, pytessaract libraries.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |

**WPR -8**

**Amity School of Engineering & Technology**

Project ID -46

Project Area – Computer Vision and Image Processing

Date- 05th Feb 2021 to 11th Feb 2021

B. Tech IT (VIII Semester)

Students Weekly Progress Report (WPR) For Even Semester of session 2020-21

|  |  |
| --- | --- |
| **To be filled by Students** |  |
| Students Name | 1. Shubham Pandey 2. Shreya Saumya 3. Deboshri Das |
| Roll no. | 1. 7090 2. 7112 3. 7115 |
| Enrollment no. | 1. A2305317090  2. A2305317112  3. A2305317115 |
| Project Title finalized, if Yes, give name, if NO, give reason | Yes, it has been finalized.  Topic: Drone Surveillance System for Traffic Management. |
| Synopsis submitted | Yes |
| Literature review |  |
| Technical & Economical Feasibility |  |
| Bill of Material | 13,500/- |
| Project Progress Schedule (PERT Chart) |  |
| Design of critical components |  |
| Fabrication work (give %) |  |
| Experimental work (give %) |  |
| Result and Analysis |  |
| Report writing |  |
| Signature of students | Shubham Pandey  Shreya Saumya  Deboshri Das |

Work done in this week:

We Implemented a Python Program to display detected vehicles on a system window while the detection is going-on, for a real-time vehicle detection and also to store the detection output video as a .avi file in the data folder.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |

**WPR -9**

**Amity School of Engineering & Technology**

Project ID -46

Project Area – Computer Vision and Image Processing

Date- 12th Feb 2021 to 18th Feb 2021

B. Tech IT (VIII Semester)

Students Weekly Progress Report (WPR) For Even Semester of session 2020-21

|  |  |
| --- | --- |
| **To be filled by Students** |  |
| Students Name | 1. Shubham Pandey 2. Shreya Saumya 3. Deboshri Das |
| Roll no. | 1. 7090 2. 7112 3. 7115 |
| Enrollment no. | 1. A2305317090  2. A2305317112  3. A2305317115 |
| Project Title finalized, if Yes, give name, if NO, give reason | Yes, it has been finalized.  Topic: Drone Surveillance System for Traffic Management. |
| Synopsis submitted | Yes |
| Literature review |  |
| Technical & Economical Feasibility |  |
| Bill of Material | 13,500/- |
| Project Progress Schedule (PERT Chart) |  |
| Design of critical components |  |
| Fabrication work (give %) |  |
| Experimental work (give %) |  |
| Result and Analysis |  |
| Report writing |  |
| Signature of students | Shubham Pandey  Shreya Saumya  Deboshri Das |

Work done in this week:

We Implemented a Python program to count the total number of vehicles detected in the view and classify the total number into low, medium and high traffic intensity.

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| To be filled by Guide (strike off whichever is not applicable) |
| Performance of students is satisfactory |
| Performance of students is unsatisfactory |
| A warning to be issued to student(s) (Name) |
| Student was not well (Name) |
| Date Signature of Guide |