**DEPARTMENT OF COMPUTER SCIENCE &**

**INFORMATION TECHNOLOGY**

****

**2019-2023**

**DECLARATION**

I hereby declare that the work, which is being presented in this project entitled “**Cyber Cell Modernization Application System**” in partial fulfillment of the requirements for the award of degree of **Bachelor of Technology in Computer Science and Information Technology**, is authentic record of work carried out by me.

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| --- | --- |
| **Place: CSIT, Indore** | **Signature of Student** |
| **Date:** | **Student Name** |
|  | **Enrollment Number** |

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**2019-2023**

**RECOMMENDATION**

This is to certify that the work embodied in this project entitled **“Real-Time Object Detection and Recognition”** submitted by **Vedika Shrivastava (0827IT141117), Yash Bhawsar(0827IT141119)** is a satisfactory account of the bonafide work done under the supervision of **Guide Name**, is recommended towards partial fulfillment for the award of the Bachelor of Technology in Computer Science & Information Technology degree by Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal.

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| **Project Guide** | **Project Coordinator** |

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**2019-2023**

**CERTIFICATE**

The Project entitled **“Real-Time Object Detection and Recognition”** submitted by **Vedika Shrivastava (0827IT141117), Yash Bhawsar (0827IT141119)** has been examined and is hereby approved towards partial fulfillment for the award of **Bachelor of Technology** in **Computer Science & Information Technology,** for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the project only for the purpose for which it has been submitted.

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| **Internal Examiner** | **External Examiner** |
| **Date:** | **Date:** |

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**2019-2023**

**STUDENT UNDERTAKING**

This is to certify that project entitled **“Real-Time Object Detection and Recognition”** has developed by us under the supervision of **Guide Name**. The whole responsibility of work done in this project is ours. The sole intension of this work is only for practical learning and research.

We further declare that to the best of our knowledge, this report does not contain any part of any work which has been submitted for the award of any degree either in this University or in any other University / Deemed University without proper citation and if the same work found then we are liable for explanation to this.

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| --- | --- | --- |
| **Student 1** | **Student 2** | **Student 2** |
| **Date:** | **Date:** | **Date:** |

**ACKNOWLEDGEMENT**

We thank the almighty Lord for giving me the strength and courage to sail out through the tough and reach on shore safely.

We owe a debt of sincere gratitude, deep sense of reverence and respect to our guide **Guide Name, Designation** and mentor **Project Coordinator Name**, **Designation**, AITR, Indore for their motivation, sagacious guidance, constant encouragement, vigilant supervision and valuable critical appreciation throughout this project work, which helped us to successfully complete the project on time.

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We are grateful to our parent and family members who have always loved and supported us unconditionally.

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| **Enrollment No:** | **Enrollment No:** | **Enrollment No:** |

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**LIST OF ABBREVIATIONS**

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| **Abbreviations** |
| ***Abbr1:*** R- CNN- Regional based Covolutional Neural Networks |
| ***Abbr2:*** COCO–Common Objects in context |
| ***Abbr3:*** OpenCV- Open Source Computer Vision |
| ***Abbr4:*** JSON- Java Script Object Notation |
| ***Abbr5:*** CIF- Count In Frame |
| ***Abbr6:*** GPU- Graphical Processing Unit |
| ***Abbr7:*** YOLO- You Only Look Once |

**ABSTRACT**

**Cyber cell is a place where we can register our complaints against any crime or fraud done through internet or technology. The project focused on three aspects: ATM relevant bank complaints, Job oriented online complaints, Social media complaints. The cyber cell departments are accessible in almost every state, ready to deal with cyber complaints in India. Since the numbers of reports for cybercrime complaints have been increasing day by day in India, therefore, cyber cell departments and the cyber police have identified various types of complaints. In this extracting named entities from narrative complaints, then action based on it by cyber cell for each type of complaints. Based on current technical feasibility and researched information this project includes functionality in Cyber Cell Modernization Application System. This project is based on research on working pattern of Cyber Cell, which includes registering user of system, then registered user can register the new complaints which are previously registered on paper are now can be handled, arranged, extracted, precise in systematic manner in this software system. The progress and action taken on complaints Cyber Cell can be processed in this system as part of ATM bank, Job Online, Social Media and other structure created in this project database design which will provide feasibility to access information in more precise and accurate framework. Thus, the interactive application in the handling and finding informational data in terms of sequence collection and easier for user to find and in less time.**