**Application for patent filing**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **D** | **D** | **M** | **M** | **Y** | **Y** | **Y** | **Y** |
|  |  |  |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| Name of the Faculty | : | **Mrs.J.Jayapradha** |
| Department | : | **C.Tech** |
| Faculty ID Number | : |  |
| Official E-mail ID | : |  |
| Major area of invention | : | **Machine Learning,** |
| Narrow focus area of invention | : |  |
| **Title of the invention** |  | **Drowsiness Detection System** |
| Earlier status of research | : | **Has been done in different ways** |
| How different your invention from similar research / others - **Novelty**? | : | **Using different approach(transfer learning)** |
| Possible domain for field application | : | **Can be used in cars to alert the drowsy drivers** |
| Possible sector for commercialization | : |  |
| Faculty Signature with date | : |  |
| HoD Remarks / Recommendation for filing patent | : |  |
| Application received by  The Review committee on | : |  |
| Review committee remarks | : |  |

**Invention Disclosure Form**

**To be filled by the inventors**

Please provide highly relevant information for details asked below and use consistent language while describing the specific feature or element in the invention disclosure.

|  |  |
| --- | --- |
| 1. | **Title of invention** (Please indicate a title for the invention and technology of the invention)  Drowsiness Detection System |
| 2. | **Describe the invention**. (Please describe specifically about the general purpose of invention. Is the invention a new process, device of product, system, software or a combination of these elements?)  Drowsiness Detection System is a Software.which can be used in cars so that it can capture the drivers face and and can detect the driver is drowsy or not with an alarm. |
| 3. | Does the invention provide a **new use of or improvement to an existing product or process**? (Highlight the use or improvements from the existing with recent and relevant references)  This is an exsisting system only but implemented using different approach  Previusly they have used many algorithms but we are using transfer learning to improve the accuracy. |
| 4. | State the **Novelty** of the invention and specify theclaims in the invention  This project is done using transfer learning for better accuracy. |
| 5. | Describe the **advantages of the present invention over the existing technologies** (please identity the advantagese.g. efficiency, cost benefits, simplicity etc.    Advantage of this is we can get more accurate results. |
| 6. | Describe how the **present inventionovercomes the drawbacks** of currently available technology related to your invention. (please include the relevant references)  By use of transfer learning to get better accuracy. |
| 7. | Describe **uses, applications and benefits** of the invention.  Can be used in automobiles to alert the drivers.  And prevent major accidents. |
| 8. | Does the focus of the invention results in **societal impact technology**?(Please describe how in detail, also specify the commercial applications, market need of product/ service of invention and why?)  Yes by this we can prevent major accidents by alerting drivers. |
| 9. | Characterize the **disadvantages and limitations** of the invention  1.It may require a camera inside a car to capture the drivers face .  2.placement of camera is also a big task inside the automobile |
| 10. | Enclose the **sketches, drawings, photographs** and other materials that help in better understating/ illustration of the novelty in the invention. |
| 11. | **Current development status of the invention**   1. Has your invention been tested experimentally 2. Describe the experimental approach of the invention also state the methods adopted in the experiment. 3. Are the experimental data is documented in a formal log or any instrumental confirmation available for the invention (kindly provide the details) 4. Is further development of your invention is necessary or development of the invention is in progress (provide the relevant information) |
| 12. | **Please list any of your publications** (including abstracts, posters, news releases, etc.) to emphasize the present invention background. |

13. **INVENTOR(S) AND/OR CONTRIBUTOR(S):**

|  |  |  |  |
| --- | --- | --- | --- |
|  | INVENTOR (1) |  | INVENTOR (2) |
| Signature: | Bathala vishal |  | Adit mahajan |
| Name: | Bathala vishal |  | Adit mahajan |
| Address: | 8-7/10 sri sain agar colony balapur |  |  |
| City and State: | Hyderabad ,telangana |  |  |
| Citizenship  (Country): | India |  |  |

**14. ASSIGNMENT DETAILS: Assignee is the entity or individual who holds the patent.**

|  |  |
| --- | --- |
| Signature: (To be signed by the authorized signatory on behalf of the assignee) |  |
| Name of the Authorized Signatory and Designation |  |
| Address: |  |
| City and State: |  |
| Citizenship  (Country): |  |