**Application for patent filing**

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| **Date** | **D** | **D** | **M** | **M** | **Y** | **Y** | **Y** | **Y** |
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| Name of the Faculty | : | Dr. Prabakeran S |
| Department | : | Networking and Communication |
| Faculty ID Number | : |  |
| Official E-mail ID | : |  |
| Contact no. of all Inventors |  | 8754993816, 6369052974, 9150742689 |
| Major area of invention | : | Medical Image Analysis |
| Narrow focus area of invention | : | CNN integrated with Attention Mechanism |
| **Title of the invention** |  | **Breast Cancer Detection using CNN and Attention Mechanisms** |
| Earlier status of research | : |  |
| How different your invention from similar research / others - **Novelty**? | : | Using a hybrid model of ResNet50 integrated with Squeeze and Excitation Networks |
| Possible domain for field application | : | Medical Sciences |
| Possible sector for commercialization | : | Medical Sciences |
| Faculty Signature with date | : |  |

**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.

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| 1. | **Title of invention** (Please indicate a title for the invention and technology of the invention) |
| 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?) |
| 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) |
| 4. | State the **Novelty** of the invention and specify the claims in the invention |
| 5. | Describe the **advantages of the present invention over the existing technologies** (please identity the advantages e.g. efficiency, cost benefits, simplicity etc. |
| 6. | Describe how the **present invention overcomes the drawbacks** of currently available technology related to your invention. (please include the relevant references) |
| 7. | Describe **uses, applications and benefits** of the invention. |
| 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?) |
| 9. | Characterize the **disadvantages and limitations** of the invention |
| 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):**

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| --- | --- | --- | --- |
|  | INVENTOR (1) |  | INVENTOR (2) |
| Signature: |  |  |  |
| Name: |  |  |  |
| Address: | Department , SRM IST, Kattankulathur campus-603203 |  | Department , SRM IST, Kattankulathur campus-603203 |
| City and State: | Chennai &Tamilnadu |  | Chennai &Tamilnadu |
| Citizenship  (Country): | INDIAN |  | INDIAN |

**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): |  |