**Efficient Learning on Imbalanced Image Set**

Submitted in Partial fulfilment of Requirement for the award of the Degree of

**MASTER OF TECHNOLOGY**

in

**Software Engineering**

Name of the Student: **Shivani Guldas**

USN: **1MS16SSE22**

Under Guidance of

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**CERTIFICATE**

This is to certify that the dessertation work entitled **“Efficient Learning on Imbalanced Image set”** is carried out by **Shivani Guldas [1MS16SSE22]**, a bonafide student of Ramaiah Institute of Technology, Bangalore, in partial fulfillment for the award of Master of Technology in Software Engineering of the Visvesvaraya Technological University, Belgaum,during the year 2016-2018. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the thesis deposited in the departmental library. The thesis has been approved as it satisfies the academic requirements in respect to dessertation work prescribed for the said degree.

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| **Lincy Meera Mathews** | **Dr. Vijaya Kumar B P** | **Dr. N V R Naidu** |
| Assistant Professor, Department of Information Science and Engineering. | Professor & Head, Department of Information Science and Engineering. | Principal, Ramaiah Institute of Technology, Bengaluru. |

**Name and signature of Examiners with Date:-**

**1.**

**2.**

**DECLARATION**

I **Shivani Guldas**, a student of Master of Technology in Department of Information Science and Engineering, Ramaiah Institute of Technology, Bangalore hereby declare that the project entitled **“Efficient learning on Imbalanced Image set“** has been carried out independently at the Institute under the Guidance of **Lincy Meera Mathews.**

I hereby declare that work submitted in this thesis is my own, except where acknowledged in the text and has not been previously submitted for the award of the degree of Visvesvaraya Technological University, Belgaum or any other institute or University.

**Signature of Student:**

**Name of Student: Shivani Guldas**

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**Place: Bangalore**

**ACKNOWLEDGEMENTS**

The successful completion of any task would be incomplete without the thanking the people who have constantly guided me and supported for the completion of the task. First of all, special thanks to my guide **Lincy Meera Mathews,** Assistant Professor, Dept. of ISE, who guided me well throughout the Project and focused on betterment of the project, his supervision, support and vital contribution from an early stage of this research and providing me extraordinary experiences throughout the work. With due support from **Dr.Vijaya Kumar B P** Professor & Head of Dept. of ISE, I thank him for his valuable encouragement and suggestions throughout the work. I would like to extend my hearty gratitude to **Dr. N V R Naidu**, Principal, for the kind support and permission to use the facilities available in the institute. I am highly grateful to faculties, library staﬀ and laboratory staﬀ of ISE department for their extended long-term support and coordination. This project would never have been completed without the unending encouragement and devotion of my family and friends.

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