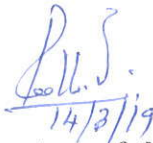


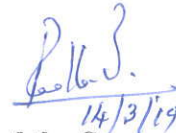
## CERTIFICATE

This is to certify that the dissertation entitled “**Acoustic Analysis for Human Voice Disorder Classification Using Optimization and Machine Learning Techniques**” submitted to the Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in partial fulfilment of the requirements for the award of the Degree of **Doctor of Philosophy in Computer Science**, is a record of original research work done by **Ms. N. A. Sheela Selvakumari** during the period of her study in the Department of Computer Science at Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, under my supervision and guidance and the thesis has not formed the basis for the award of any Degree/ Diploma / Associateship / Fellowship or other similar titles of any candidate of any University.



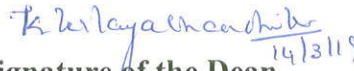
**Signature of the  
Head of the Department**

**Dr. (Mrs) V. RADHA**  
Professor & Head  
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Coimbatore - 641 043



**Signature of the Supervisor**

**Dr. (Mrs) V. RADHA**  
Professor & Head  
Department of Computer Science  
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and Higher Education for Women  
Coimbatore - 641 043

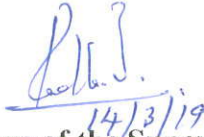


**Signature of the Dean**

**Dr. K. UDAYA CHANDRIKA**  
Dean, School of Physical Sciences  
& Computational Sciences  
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## DECLARATION

I, Ms. N. A. Sheela Selvakumari., hereby declare that the thesis, entitled “Acoustic Analysis for Human Voice Disorder Classification Using Optimization and Machine Learning Techniques” submitted to the Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, in partial fulfilment of the requirements for the award of the Degree of **Doctor of Philosophy in Computer Science** is a record of original and independent research work done by me during the period under the supervision and guidance of **Dr. V. Radha, M.Sc., PGDCA., PGDOR., B.Ed., M.Phil., Ph.D.,** Department of Computer Science, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, and it has not formed the basis for the award of any Degree/ Diploma/Associateship/Fellowship or other similar titles of any candidate of any University.



14/3/19

Signature of the Supervisor



Signature of the Candidate

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