

CANDIDATE’S DECLARATION

I hereby declare that the work, which is being presented in the thesis entitled “*Design and Development of Lip Extraction Algorithm and Dataset Creation for Gujarati Alphabets Recognition via Lip Movement using Deep Learning*” towards the partial fulfillment of the requirement for the award of the degree of **Doctor of Philosophy (Ph. D.)** in **Computer Science & Engineering** submitted in the Department of Computer Science & Engineering, Faculty of Technology & Engineering, The Maharaja Sayajirao University of Baroda, Vadodara (India) is an authentic record of my own work carried out during the period from September 2019 to July 2024, under the guidance of **Dr. Vishwas Raval**,

The matter presented in this thesis has not been submitted for the award of any other degree of this or any other Institute by me.

Date:

Place: Vadodara

(**PATEL VIBHAVARI RAMESHCHANDRA**)

CERTIFICATE

This is to certify that the above statement made by the candidate is correct to the best of my knowledge and belief.

Date:

Place: Vadodara

(**DR. VISHWAS RAVAL**)