

## APPROVAL SHEET

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This thesis entitled “*Design and Development of Lip Extraction Algorithm and Dataset Creation for Gujarati Alphabets Recognition via Lip Movement using Deep Learning*” submitted by **Ms. PATEL VIBHAVARI RAMESHCHANDRA** in the Department of Computer Science & Engineering is hereby approved for the degree of Doctor of Philosophy in Computer Science & Engineering.

Examiner’s Signature

Dr. Vishwas Raval  
Guide