



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING,  
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## CERTIFICATE

This is to certify that **Mr. RAVAL VISHWAS JAYANTILAL** has worked under my guidance to prepare the thesis entitled “*Design and Development of a Computer Vision Algorithm and Tool for Currency Recognition in Indian Vernacular Languages for Visually Challenged People*” which is being submitted herewith towards the requirement for the degree of Doctor of Philosophy in Computer Science & Engineering, Faculty of Technology & Engineering, The Maharaja Sayajirao University of Baroda, Vadodara.

Dr. Apurva Shah,  
Head & Guide,  
Department of CSE

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## APPROVAL SHEET

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This thesis entitled “*Design and Development of a Computer Vision Algorithm and Tool for Currency Recognition in Indian Vernacular Languages for Visually Challenged People*” submitted by **Mr. RAVAL VISHWAS JAYANTILAL** 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. Apurva Shah  
Guide