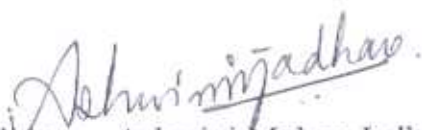


## Declaration

I declare that this thesis is my own, unaided work. It is being submitted for the Degree of Doctor of Philosophy in the University of the Witwatersrand, Johannesburg. It has not been submitted before for any degree or any other examination in any other University.



Candidate – Ashwini Mohan Jadhav

8<sup>th</sup> day of December 2011