



**TRIBHUVAN UNIVERSITY  
INSTITUTE OF ENGINEERING  
CENTRAL CAMPUS, PULCHOWK**

**THESIS NO: 071MSCS653**

**“AN APPROACH TO IDENTIFY EARLY BLIGHT, LATE BLIGHT AND  
SEPTORIA DISEASE PRESENT IN LEAF OF TOMATO PLANT BY  
APPLYING CONVOLUTION NEURAL NETWORK AND RECURRENT  
NEURAL NETWORK”**

**SUBMITTED BY:  
HIMAL CHAND THAPA**

**SUBMITTED TO THE DEPARTMENT OF ELECTRONICS AND  
COMPUTER ENGINEERING IN PARTIAL FULFILLMENT OF THE  
REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE IN  
COMPUTER SYSTEM AND KNOWLEDGE ENGINEERING**

**DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING**

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By  
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A thesis submitted in partial fulfillment of the requirement for the degree of Master of  
Science in Computer System and Knowledge Engineering

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