

**A Proxy Re-Encryption Approach to Secure Data Sharing
in the Internet of Things Based Blockchain**

**A Dissertation submitted in partial fulfillment of the requirement for the award of degree
of**

MASTER OF COMPUTER APPLICATIONS

of
Visvesvaraya Technological University



By

Ashik E.D
10X21MC016

Under the Guidance of

Internal Guide:
Dr. Puja Shashi

External Guide:
Ms. Keerthana S



Department of Master of Computer Applications,

The Oxford College of Engineering

10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068

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CERTIFICATE

This is to certify that **Ashik E.D** has completed his/her final semester project work Title **A Proxy Re-Encryption Approach to Secure Data Sharing in the Internet of Things Based on Blockchain** as a partial fulfillment for the award of **Master of Computer Applications** degree, during the academic year 2020-2021 under our joint supervision.

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Date: 25th July, 2023

PROJECT COMPLETION CERTIFICATE

We would like to inform you that Mr. **Ashik E D** has successfully completed his project with our company, he has been working on the project title **"A Proxy Re-Encryption Approach to Secure Data Sharing in the Internet of Things Based on Blockchain"** (Domain : Java) from 05-04-2023 to 15-07-2023 as "Software Developer - Intern".

We have found him to be a self-starter who is motivated, duty-bound and hardworking. He has worked sincerely on his assignments and his performance is at par excellence.

We wish him all the best for his future endeavors.

Sincerely,



Manager

Human Resources Department

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Declaration

I, Ashik E.D, student of 4th sem. MCA, The Oxford College of Engineering, bearing USN 1OX21MC016 hereby declare that the project entitled **A Proxy Re-Encryption Approach to Secure Data Sharing in the Internet of Things Based on Blockchain** has been carried out by me under the supervision of external guide Dr. Puja Shashi, HOD & Associate Professor and Internal guide Dr. Puja Shashi, HOD & Associate Professor and submitted in partial fulfillment of the requirements for the award of the Degree of Master of Computer Application by the Visvesvaraya Technological University during the academic year 2022-2023. This report has not been submitted to any other organization /University for any award of degree certificate.

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Signature

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First and Foremost, I would like to thank my „**Parents**“ who are the first God and who has given blessings, strength, and stayed with me throughout the successful completion of the project.

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I especially thank **Ms. Keerthana S**, External Guide and a Project Head of the TechCiti who helped and supported me to complete the project prosperously.

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Finally, I thank all the staffs of MCA department who have been a source of inspiration for accomplishing the project successfully.

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