Declaration of Authorship

This is to certify that the work presented in this thesis is the outcome of the analysis and experiments carried out under the supervision of Tareque Mohmud Chowdhury, Assistant Professor of the Department of Computer Science and Engineering (CSE), Islamic University of Technology (IUT), Dhaka, Bangladesh. It is also declared that neither this thesis nor any part of this thesis has been sub- mitted anywhere else for any degree or diploma. Information derived from the published and unpublished work of others has been acknowledged in the text and a list of references is given.

Authors:

Afeef Ahmed Jarif

Student ID - 180041241

Chowdhury Md Intiser Ali

Student ID - 180041233

Muhammad Jawad Chowdhury

Student ID - 180041228

Approved By:

Supervisor:

tareque 06/06/2023

Tareque Mohmud Chowdhury

Assistant Professor

Department of Computer Science and Engineering(CSE)

Islamic University of Technology (IUT), OIC

Co-Supervisor:

Tasnim Ahmed

Lecturer

Department of Computer Science and Engineering(CSE)

Islamic University of Technology (IUT), OIC