DECLARATION

I hereby declare that the Major Project-II work entitled **"A Recommender System for Online Social Network Using Hadoop in Large Scale User Generated Data"** which is being submitted to the Delhi Technological University, in partial fulfillment of requirements for the award of degree of Master of Technology (SWE) in the Department of Computer Science & Engineering, is a bonafide report of the Major Project-II carried out by me. The material contained in this report has not been submitted to any University or Institution for the award of any degree.

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CERTIFICATE

This is certify that the Major Project-II Report entitled **"A Recommender System for Online Social Network Using Hadoop in Large Scale User Generated Data"** is the work of Swati Sharma (Roll no. 2K13/SWE/22). This project was completed under my supervision and form a part of Master of Technology (Software Engineering) course curriculum in the Department of Computer Science & Engineering, Delhi Technological University, Delhi.

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ABSTRACT

We are living in an age of Data and Information. Online social networks are contributing in enlargement of this data on high scale and Recommendation systems are helping industries to make this data useful for business purposes. It is helping to enhance the opportunities in online social data. Online social network generate large quantity of data from its users and recommendation system use this data for suggesting right piece of information to the user. But in the time of Big Data, processing large volumes of data generating suggestions is a difficult job. We are aiming to implement a combined approach for recommendation algorithm which include user-based collaborative filtering and item-based collaborative filtering using Apache Mahout, a machine learning tool, on Hadoop platform to reduced the time for recommendation generation and to provide a scalable system for processing large data sets efficiently.

Keywords: Recommendation system, Hadoop, Apache Mahout, Collaborative filtering.

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