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(Hamdard University)

(Declared as Deemed-to-be University under section 3 of  
the UGC Act, 1956 vide Notification No F 9-18/85-U.J  
Dated 10.5.1989 of the Government of India)

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Accredited by NAAC in 'A' Category

## CERTIFICATE

On the basis of the declaration submitted by **Mr. Bhupender (Enrollment No: 2018-333-014)** a student of **B. Tech (Electronics and Communication Engineering)**, I hereby certify that the dissertation entitled "**Real-time Sign Language to Text using Machine Learning in Python**" being submitted to the Department of Computer Science & Engineering, Jamia Hamdard, New Delhi in partial fulfillment of the requirement for the award of the degree of B. Tech (Electronics and Communication Engineering) is carried out by him under my supervision.

*Farheen*  
Dr. Farheen Siddique  
Head, Department of SEST

*S. S. Khalid*  
Mr. Syed Sibtain Khalid  
(Supervisor)