

**CERTIFICATE**

This is to certify that **Archana Kumari (1906011), Priyanshu Raj (1906012), Garge Archana Atul (1906124)** have carried out the project entitled "**Gender Bias Detection in Hate Speech Classifier**" as their 6th semester Minor Project-I (CS6490) under my supervision.

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**Dr. Jyoti Prakash Singh**  
Assistant Professor  
 Computer Science & Engineering  
 National Institute of Technology Patna



**Declaration**

We hereby declare that this project work for Minor Project-I (CS6490) entitled "Gender Bias Detection in Hate Speech Classifier" has been carried out by us under the supervision of Dr. Prabhat Kumar, Associate Professor, Department of Computer Science and Engineering, NIT Patna. No part of this project has been submitted for the award degree or diploma to any other Institute.

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Place: Patna   
Date: 14th May 2022

**ACKNOWLEDGEMENT**

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**Archana Kumari (1906011)  
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**Abstract**

Sign language is one of the oldest and most natural form of language for communication, but since most people do not know sign language and interpreters are very difficult to come by, we have come up with a model using neural networks for fingerspelling based Indian sign language. In our method, the image is first passed through a filter and after the filter is applied, the filtered image is passed through a classifier which predicts the class of the hand gestures. Our method provides 82.5 % accuracy for the 10(0-9) digits.