



## **INFORMED CONSENT TO PARTICIPATE IN A RESEARCH STUDY**

**Full Study Title:** Real time gesture detection using the convolution neural network

**Principal Investigators:** Sandipgiri Goswami

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**Sponsor:**

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### **INFORMED CONSENT**

You are being asked to consider participating in a research study. A research study is a way of gathering information on a treatment, procedure or program or to answer a question about something that is not well understood. This form explains the purpose of this research study, provides information about the study procedures, possible risks and benefits, and the rights of participants.

Please read this form carefully and ask any questions you may have. The researcher will explain this form and all information concerning the study to you verbally. Please ask the researcher to clarify anything you do not understand or would like to know more about. Make sure all your questions are answered to your satisfaction before deciding whether to participate in this research study.

Participating in this study is your choice (voluntary). You have the right to choose not to participate, and you have the right to withdraw from the study and stop your participation at any time. If you decide to stop participating, your data will be removed and there will be no consequences to you or the services you receive.

### **INTRODUCTION**

My main objective of my study is to help the deaf community to increase their self-esteem and IQ level and improve their communication skills. Students who are deaf or have a deaf parent or have a close relative with deaf individual will learn by themselves about sign language alphabets and numbers. Deaf community will learn their first step towards the American sign language. Although correct usage of sign gesture plays a very important part in effective communication, deaf students are also encouraged to establish connection to the deaf community and to carry their new knowledge and skill beyond the classroom and into the community at large.

You are being asked to consider participating in this study because you need to do performance testing for my study. Participant needs to perform a different sign gesture in front of the web cam and measure accuracy.



### **WHAT WILL HAPPEN DURING THIS STUDY?**

You will be asked to perform different gesture in front of web cam and capture screen shot which will stored in image format. Each participant will be approximately 25-30 minutes to do this research perform testing.

### **WHAT ARE THE RISKS OR HARMS OF PARTICIPATING IN THIS STUDY?**

There are no medical risks to you from participating in this study, but you will be available approximately 25-30 minutes to do perform testing.

### **WHAT ARE THE POTENTIAL BENEFITS?**

Individual Benefits – You will have basic knowledge about American sign language to participating in this study. As a participant you will be given the chance to influence future research project based on your own educational priorities and information needs.

Benefits to Deaf community will learn their first step towards the American sign language. Although correct usage of sign gesture plays very important part in effective communication, deaf students are also encouraged to establish connection to deaf community and to carry their new knowledge and skill beyond the class room and into the community at large.

### **ARE STUDY PARTICIPANTS PAID TO PARTICIPATE IN THIS STUDY?**

You will not be paid for participation in this study, it is voluntary.

### **HOW WILL MY INFORMATION BE KEPT CONFIDENTIAL?**

All information that is collected, used or disclosed for this study will be handled in a confidential manner. Anything that we find out about you that could identify you will not be published or told to anyone else, unless we get your permission. The information obtained will be kept in password protected in the office of the researcher and be only available to the investigator's team. The information (raw data) will be kept for five years.

### **INFORMATION ABOUT THE STUDY RESULTS**

You have the right to be informed of the results of this study once the study is complete. If you will be informed of the results of this study by email.

### **WHAT ARE THE RIGHTS OF PARTICIPANTS IN A RESEARCH STUDY?**

You have the right to receive all information that could help you decide about participating in this study. You also have the right to ask questions about this study and your rights as a research participant, and to have them answered to your satisfaction, before you make any decision. You also have the right to ask questions and to receive answers throughout this study.



If you have any questions about this study, you may contact the person in charge of this study (Principal Investigator)

If you have questions about your rights as a research participant or any ethical issues related to this study that you wish to discuss with someone not directly involved with the study, you may call **Research Ethics Officer, Laurentian University Research Office**, telephone: 705-675-1151 ext 3681, 2436 or toll free at 1-800-461-4030 or email [ethics@laurentian.ca](mailto:ethics@laurentian.ca).

### **DOCUMENTATION OF INFORMED CONSENT**

You will be given a copy of this informed consent form after it has been signed and dated by you and the study staff.

Full Study Title: Real time gesture detection using the convolution neural network

Name of Participant: Vrushal Shah

Participant/Substitute decision-maker

By signing this form, I confirm that:

- This research study has been fully explained to me and all my questions answered to my satisfaction
- I understand the requirements of participating in this research study
- I have been informed of the risks and benefits, if any, of participating in this research study
- I have been informed of any alternatives to participating in this research study
- I have been informed of the rights of research participants
- I have read each page of this form
- I have agreed, or agree to allow the person I am responsible for, to participate in this research study

Vrushal Shah  
Name of participant/  
(print)

VPSH  
Signature

15-01-2019  
Date