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DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

NORTH SOUTH UNIVERSITY



**CSE499**

***Senior Design Project Report***

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A Machine Learning Based Smart Android Application for Visually, Speech, and Hearing Impaired People

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***Group Members***

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*Supervisor*

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*Summer 2020*

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## DECLARATION

We hereby declare that this is our original work. This work, fully or partially have not been submitted anywhere for any other purpose. Every material and reproduced works used for the purpose of this study has been properly acknowledged.

### Declared By:



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## Approval

This senior design capstone project entitled “A Machine Learning Based Smart Android Application for Visually, Speech, and Hearing Impaired People” by Sadman Hossain Ridoy (NSU ID 1610456042), Tanmim Shikder (NSU ID 1610694642), is approved in partial fulfilment of the requirement of the Degree of Bachelor of Science in Computer Science and Engineering on May and has been accepted as satisfactory.

### Approved By:

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## **Acknowledgement**

Towards the accomplishment of this project, the constant support, encouragement and guidance of AKM BAHALUL HAQUE, our honourable supervisor for this project was indispensable. We would like to express our profound gratitude to our honorable super-visor, AKM BAHALUL HAQUE, for his diligent guidance, valuable feedbacks, patience and encouragement towards the completion of this project. At times we were in a state of great doubt about the completion of this project but AKM BAHALUL HAQUE always encouraged, directed and supported us with conceivable solutions. Without his help, it would not have been possible for us to bring our project to its current state. Finally, we would like to thank everybody who supported us and provided us with counsel for the completion of the project.

## **Abstract**

A Machine Learning based smart application which will be helped for impaired people such as Visual Impaired, Speech Impaired, Hearing Impaired people in their day to day life. Whenever any object or person will be in front of the impaired people or the app will instantly notify the user. Also hearing impaired people also get the alert when someone make any sound to him/her. Speech impaired people can say anything by using this machine trained smart app.