

**Gesture Talk**  
**Department of Computer Science**  
**Batch 10B**

<b>Sno</b>	<b>Final Year Project Title (Computer Science)</b>
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<b>Sno</b>	<b>Final Year Project Title (Computer Science)</b>
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**Group No: 14**

**Department: COMPUTER SCIENCE**

**Project Title: Gesture Talk**

**Supervisor / Co-supervisor: Abdul Rahman**

**Abstract:**

This project presents an innovative concept of gesture to text conversion mechanism. The user needs to perform pre defined gesture from his hand to get it distinguish by the system, the actions he performs are then recognized. The proposed system stores spatial coordinate information along with the finger tip position and palm deviation angle which is used for gesture recognition in some later stage. This approach consists of two phases. In first phase, spatial coordinate and tangent angle information of a new gesture is analyzed and added in a decision tree. In second phase, the gesture is recognized by comparing the feature vector with the stored information using a decision tree matching. The system was tested on multiple gestures performed by many people and mostly was correctly recognized. The gesture talk could be used by deaf and mute community to communicate their desires using sign language which then be converted to words that could be understood by everyone. This system is fast, reliable and portable.

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<b>Learning Outcomes</b>	<b>Computer Vision / Android Learning</b>
<b>Technology Involved</b>	Android/JavaScript/C/PHP
<b>Industry Standards and Requirements</b>	Minimum requirement for Android Ice Cream Sandwich (4.0) / Leap Motion Controller / Browser
<b>Expected Deliverables</b>	Gesture To Text Conversion Application.