

*A Project Report on*

# **VOICE BASED LED SCROLLING DISPLAY USING IOT**

*Submitted In Partial Fulfilment of The Requirements for The Award of Degree Of*

## **BACHELOR OF TECHNOLOGY**

**In**

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

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**DEPARTMENT OF**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

**(NAAC Accredited, accredited by NBA, Approved by A.I.C.T.E, Permanently**

**Affiliated to J.N.T.U. KAKINADA)**

**TAMARAM (P.O), MAKAVARAPALEM (M.O), NARSIPATNAM (R.D)**

**VISAKHAPATNAM DISTRICT-531113**

**2018-2022**

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### **BONAFIDE CERTIFICATE**

**This is to certify that the project entitled “ VOICE BASED LED SCROLLING DISPLAY USING IOT ” in partial fulfilment for the of degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING. at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an Bonafide work carried out by, R.SUGUNA (18811A0427), S.SUNITHA (18811A0431), CH.SAI BALAJI (19815A0405), V.SATISH(19815A0428) under the guidance and supervision during 2018-2022.**



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## ABSTRACT

Notice boards are playing a very important role in our day-to-day life. By replacing conventional analog type notice board with digital notice board, we can make information dissemination much easier in a paperless community. Notice board could be a primary factor in any establishment or public places like bus stations, railway stations, colleges, malls etc. Sticking out numerous notices day to day could be a tough method. A separate person is needed to take care of this notice display. The objective of our project is to design a dot-matrix moving message display using microcontroller and IOT where the characters shift from left to write continuously. In this project we have used ATmega328 microcontroller and nodemcu MC. It has a maximum rated processor frequency of 16MHz, and we have used 16x32 dot-matrix display. At first a code was developed. And we got our desired result there. This project is regarding advanced wireless notice board. In IOT based Web Controlled Notice Board, Internet is employed to wirelessly send the message from Browser to the LED display. The main objective of the project is to develop a wireless notice board that displays messages sent from the user's mobile application (ADAFRUIT IO SERVER).