

# SANDEEP KUMAR

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## EDUCATION:

**Maharishi Vidhya Mandir School ,Chetpet, Chennai**  
10th CGPA - 9 ( CBSE )

**DAV School, Gill Nagar , Chennai**  
12th- 95% ( State Board )

**Sri Venkateswara College of Engineering, Anna University, Chennai, India**  
Bachelor of Engineering in Electronics and Communication

CGPA - 8.5( Up to Semester 4)

## SKILLS:

|                   |  |
|-------------------|--|
| Languages         | : Nodejs ,Python ,C++,C, JavaFx(Basic),SQL(basic),Java(basic)      |
| Packages          | : WordPress, Eclipse. Visual Studio ,Web Storm ,VMware Workstation |
| Operating Systems | : Linux distribution- Raspbian and Ubuntu ,Windows                 |
| Area of Interest  | : Machine Learning, web development ,IOT, Arduino and raspberry pi |

## Conference:

### IEEE Madras Student Conference Cum Paper Content-2017

- Published a paper on the topic "Facial Expression using neural network for customer based services" and won the best paper award with cash prize of Rs 10,000

## EXPERIENCE:

### SMART COMPARE USING RASPBERRY PI(2015):

- Involves design of a client -friendly retail experience where users can dynamically compare two products of same category such as cell phones, Shoes, apparels and view the complete information about the product and do comparisons among products in real time
- Coded in Python , HTML5 and flask python framework

**BLUETOOTH CONTROLLED ROBOTIC ARM (2016) :**

- Bluetooth module HC05 is used to control a robot which is of four degree of freedom and user uses the mobile application to move the robot in all direction and pick up object using its two fingered arm.

**DESIGN OF CALCULATOR USING JAVA FX (2014) :**

- Design of a User Interface calculator to do arithmetic operation and calculation.

**I-ROBO COMPETITION STATE-LEVEL(2011) :**

- A robot which can do Multi-tasking work which can be used in hazards place and earthquake prone areas. The robot has four degree of freedom and has hook to drag car in the back and can occupy people inside the robot. The robot is made using I-Robo kit.

**LEMA LAB I & AR OF IIT-M (2017) :**

- Successfully built Intelligent Maze Solving robot using Shortest path Algorithm, Gesture Controlled Pick and Place robot and Computer Controlled Robot using wireless communication in ATmega16 in the Arduino Platform.

**INPLANT TRAINING AT HCL (2016) :**

- Acquired the study of knowledge in the field of Hardware and Networking, Cloud computing, Embedded System, Ethical Hacking, Android and HR session.

**ACCOLADES:****RUNNER OF IIT-M SHAASTRA HACKATHON (2017) :**

- Motor vehicle Collision Assistant System .The aim of this system is to send GPS location and type of accident report to prerequisite phone numbers who has installed our APP. The APP read the SMS and receives the GPS location and update the GPS location in the database. The data can be used to solve three users problems one is to alert nearby hospital from GPS location and send ambulance, second to provide Highway vehicles assistants, third to show the analysis and best accident and traffic less route to the user with help of community inside the APP.

**WINNER OF MAKETHON BY LEMA LAB I &AR OF IIT-M (2017):**

- Gesture controlled mouse and keyboard product is aimed to solve a real-time problem of changing slides of PPT during a conference .Virtual control of the mouse movement and specific keyboard buttons is used to play computers games and this idea can be extended to industrial ,medical uses .

**WINNER OF DEBUG THE DUINO BY VIT CHENNAI(2017):**

- Debug the duino is a online arduino based code debugging competition conducted by VIT Chennai with two rounds.

**WINNER OF LEMA LAB I &AR OF IIT-M KAZIEN EXOP (2016) :**

- Smart compare project to provide a client -friendly retail experience where users can dynamically compare two products of same category such as cell phones, Shoes, apparels and view the complete information about the product and do comparisons among products in real time which was coded in Nodejs and express framework .

**RUNNER OF MINI PROJECT IN SVCE (2016) :**

- A Robotic arm capable of picking object and moving to required place using servo motor and BO motor for movements .The robot has four degree of freedom.
- **WINNER OF I-ROBO COMPETITION STATE-LEVEL (2011) :**

**WINNER OF MATHS JAMBOREE ON ACCOUNT OF RAMANUJAN 150TH BIRTHDAY (2012) :**

- A mathematical project which uses IR sensor that reads the Barcode on car near the Toll plaza and reduce the cost in your toll plaza credit card without waiting in the queue.