

# KUNAL SHARMA

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## EDUCATION

<b>NIT Warangal</b> B. Tech Electrical and Electronics Engineering 2021 CGPA: 6.25/10	2017 - 2021
<b>MDS Senior Secondary School</b> XII CBSE 92.4%	2016
<b>Alok Senior Secondary School</b> X CBSE CGPA: 9.6	2014

## EXPERIENCE

<b>Aufenbach</b> , <i>Internship</i> , Warangal	Oct. 2019 - Apr. 2020
Developed a project on Human Activity Recognition using RNNs: System through which user's physical activities can be tracked using sensors. Virtual Reality to experience the computer simulation. Worked on data acquisition from sensors and conversion to useful format.	

## SKILLS

**TECHNICAL SKILLS:** C++, Python, MATLAB, SQL, PowerBI, Arduino  
**RELATIVE COURSEWORK:** Data Structures and Algorithms, Machine Learning, Data Analytics

## PROJECTS

<b><u>Celebrity Face Recognition</u></b>
Model is build using SVM Classifier and deployed on AWS EC2 instance using Python Flask server that serves requests. There's also a UI website that allows the user to drag and drop the image to be classified. Achieved an accuracy of 82%.
<b><u>Bengaluru Real Estate Price Prediction</u></b>
Model is build using Linear Regression and deployed on AWS EC2 instance using Python Flask server that serves requests. There's also a UI website that allows the user to enter home square ft area, bedrooms etc. and get the predicted price. Achieved an accuracy of 86%.
<b><u>Web Scraping using python BeautifulSoup</u></b>
Web scraping with python and BeautifulSoup Library for 3 different websites.
<b><u>Handwritten Digit Recognition</u></b>
Implemented using CNNs in python. Used MNIST database for training and testing. This was then compared with the other model which didn't use CNNs.
<b><u>Voice Controlled Bot</u></b>
Created a voice-controlled bot using L293D motor driver module and Bluetooth HC-05 module interfaced with Arduino. Used Google voice typing for voice recognition. Bot is controlled via smartphone app.
<b><u>Gesture Controlled Bot</u></b>
Made a gesture-controlled bot using MPU60050 module and transmitter-receiver modules interfaced with Arduino.

## ACTIVITIES

<b>Assistive Technology Team, Innovation Garage (IG)</b>
Working on technology solutions for Visually Impaired. Current Projects: Teaching geometry to VI kids, Navigation system for VI people.
<b>Electrical Engineering Association, NIT Warangal</b>
Served in Event Conduction & Coordination and Design teams.
<b>E-Cell &amp; E-Summit, NIT Warangal</b>
Served in Design and Event Conduction & Coordination teams.
<b>Technozion, NIT Warangal</b>
Managed a techno-marketing event named MAD MARKETING at the annual technical fest of NIT Warangal. The event was the only management themed event in the whole fest. It witnessed a participation of 400+ students.

## ACHIEVEMENTS

- **Joint Entrance Examination (Advanced)**  
AIR: 7447 (GEN)
- **Joint Entrance Examination (Main)**  
AIR: 6107 (GEN)
- **Science Olympiad Foundation**  
School Topper

## VOLUNTEERING

- **World Space Week, NIT Warangal (In association with WSWA and ISRO SDSC, SHAR)**  
Event Coordination and Public Relations. The event received a footfall of 15k in 2 days. ~80% of them were school children.