

# KUNAL SHARMA

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## SKILLS

### TECHNICAL SKILLS

C++  
Python  
MATLAB  
MySQL  
PowerBI  
Arduino

### RELATIVE COURSEWORK

Data Structures  
OOPs-C++ (Basics)  
DBMS  
Machine Learning (Basics)

### OTHER INTERESTS

Astronomy  
Graphic Designing

## ACHIEVEMENTS

- **Joint Entrance Examination (Advanced)**  
AIR: 7447 (GEN)
- **Joint Entrance Examination (Main)**  
AIR: 6107 (GEN)  
Top 0.5% of 1.3+ million students nationwide
- **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.

## EDUCATION

<b>NIT Warangal</b> B. Tech in Electrical and Electronics Engineering CGPA: 6.36/10	2017 to 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>	Oct. 2019 to Mar. 2020 Warangal
<b>Real-time Body Tracking for VR Applications:</b> <ul style="list-style-type: none"><li>• Developed a system through which user's physical activities are tracked using sensors.</li><li>• Users can <b>walk</b> inside computer simulation <b>without any hand controls</b>.</li><li>• Worked on design of system, data acquisition from sensors and conversion to useful format.</li><li>• Was able to convert the work done here into a <b>research paper</b> that was presented at various locations including at an <a href="#">IEEE conference</a></li></ul>	

## PROJECTS

### Custom URL Shortener - smolink

- Shortens URL upto **length 512 characters to 6 characters**
- Able to **redirect links** and keep **stats on the number of visits**
- Uses **sqlite3** for database management
- Has **HTTP Basic Authentication** to view stats
- Made using Flask, Flask-SQLAlchemy

### Celebrity Face Recognition

- Dataset used **250+ images** in **5 categories** mined using **web scraping**
- Used: SVC, Random Forest, Logistic Regression, OpenCV, Python, Flask
- **End to end project** with **Web UI** where user can **drag and drop** the image to classify
- Successfully achieved an **accuracy of 82%**

### Bengaluru Real Estate Price Prediction

- Dataset used consists of **13,000 records** with **8 independent features**.
- Used: LinearRegression, DecisionTreeRegressor, Python, Flask
- **End to end project** along with **Web UI** where user can input the features and get an estimate price
- Successfully achieved an **accuracy of 86%**

### Arduino Voice Controlled Bot

- L293D motor driver module, Bluetooth HC-05 module interfaced
- Used Google voice typing for voice recognition. Bot is controlled via smartphone app.

### Arduino Gesture Controlled Bot

- MPU6050 module, radio transmitter-receiver modules interfaced

## ACTIVITIES

### **Assistive Technology Team, Innovation Garage (IG)**

Working on technology solutions for **Visually Impaired(VI)**. Current Projects: **Teaching geometry to VI kids**, **Navigation system for VI people**.

### **Electrical Engineering Association, NIT Warangal**

Served in **Event Conduction & Coordination** and **Design** teams.

### **E-Cell & E-Summit, NIT Warangal**

Served in **Design** and **Event Conduction & Coordination** teams.

### **Technozion, NIT Warangal**

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**.