

# KUNAL SHARMA

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## SKILLS

### TECHNICAL SKILLS

C++  
Python  
MATLAB  
MySQL  
JavaScript  
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

### NIT Warangal

B. Tech in Electrical and Electronics Engineering  
CGPA: 6.58/10

2017 to 2021

### MDS Senior Secondary School

XII CBSE 92.4%

2016

### Alok Senior Secondary School

X CBSE CGPA: 9.6

2014

## EXPERIENCE

### Aufenbach

Internship

Oct. 2019 to Mar. 2020

Warangal

#### Real-time Body Tracking for VR Applications:

- Developed a system through which user's physical activities are tracked using sensors.
- Users can **walk** inside computer simulation **without any hand controls**.
- Worked on design of system, data acquisition from sensors and conversion to useful format.
- Was able to convert the work done here into a **research paper** that was presented at various locations including at an [IEEE conference](#)

## 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**
- Users can set their own **personalized URL**, uses sqlite3 as db
- 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 and Gesture Controlled Bot

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