

# 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

## PUBLICATIONS

**HCH DEX: A Secure Cryptocurrency e-Wallet & Exchange System with Two-way Authentication** Oct. 2020  
IEEE, 2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT)  
DOI:  
[10.1109/ICSSIT48917.2020.9214122](https://doi.org/10.1109/ICSSIT48917.2020.9214122)

## 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

**National Institute of Technology Warangal** 2017 to 2021  
B. Tech in Electrical and Electronics Engineering  
CGPA: 6.66/10

**MDS Senior Secondary School** 2016  
XII CBSE 92.4%

**Alok Senior Secondary School** 2014  
X CBSE CGPA: 9.6

## EXPERIENCE

**Aufenbach** Oct. 2019 to Mar. 2020  
*Internship* 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

### Django Blog Website

- Blog website made using Django and deployed on PythonAnywhere, sqlite3 is db
- Users can:- Register new account, Create, update, delete posts
- Choose a custom profile picture, View posts by individual user
- Change account username, email, password
- Request password reset email

### 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%

## 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.