

# KUNAL SHARMA

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## SKILLS

### TECHNICAL SKILLS

C++  
Python  
MATLAB  
MySQL  
PowerBI  
Arduino  
JavaScript

### 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)

### Smart Boarding System with e-Passports for Secure and Independent Interoperability

Nov. 2021  
Springer Nature Computer Science, 3, 52 (2022)

DOI: [10.1007/s42979-021-00938-5](https://doi.org/10.1007/s42979-021-00938-5)

## 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

B. Tech in Electrical and Electronics Engineering

CGPA: 6.66/10

2017 to 2021

### MDS Senior Secondary School

XII CBSE 92.4%

2016

### Alok Senior Secondary School

X CBSE CGPA: 9.6

2014

## EXPERIENCE

### ACT Ltd

Management Trainee

June 2021 to Current

Bengaluru

Technical Leadership Development Program

Projects:

- Customer satisfaction score framework: HTML, CSS, JS, PHP
- CXM Analytics tool: MongoDB, Python, Countly

### 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 2 research papers that were presented at various locations.

## 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** with **Web UI**, user can input the features & 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**.