# KUNAL SHARMA

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## **SKILLS**

# **TECHNICAL SKILLS**

C++

Python

MATLAB

MvSOL

JavaScript

PowerBl

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 & Oct. Exchange System with Two- 2020 way Authentication

IEEÉ, 2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT)

DOI:

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

B. Tech in Electrical and Electronics Engineering

CGPA: 6.66/10

#### MDS Senior Secondary School

XII CBSE 92.4%

# **Alok Senior Secondary School**

X CBSE CGPA: 9.6

## 2014

2016

2017 to 2021

# **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 <u>IEEE conference</u>

### **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**.