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

NIT Warangal
B. Tech in Electrical and Electronics Engineering
CGPA: 6.25/10

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 an **International Seminar in Malaysia**.

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**.