KUNAL SHARMA

✉ ksharma@student.nitw.ac.in
🌐 ksh168.github.io
📞 +91-94629 68718/ 80056 81030
in kunalsharma99
○ ksh168

SKILLS

TECHNICAL SKILLS
C++
Python
MATLAB
SQL
PowerBI
Arduino

RELATIVE COURSEWORK
Data Structures
OOPs-C++ (Basic)
Machine Learning

OTHER INTERESTS
Astronomy
Graphic Designing

ACHIEVEMENTS

• **Joint Entrance Examination (Advanced)**
AIR: 7447 (GEN)

• **Joint Entrance Examination (Main)**
AIR: 6107 (GEN)

• **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	2017 to 2021
B. Tech Electrical and Electronics Engineering	
CGPA: 6.25/10	
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:
• System through which user's physical activities can be tracked using sensors. Users can walk inside computer simulation without any hand controls. Worked on 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 an international seminar in Malaysia.

PROJECTS

Celebrity Face Recognition
• Dataset used different images mined using web scraping from google images.
• Used: SVC, Random Forest, Logistic Regression, OpenCV, Python, Flask.
• Contains 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.
• Performed Exploratory Data Analysis, Data Cleaning, and Developed various models for predicting real estate price along with Web UI.
• Used: LinearRegression, Lasso, DecisionTreeRegressor, Python, Flask
• Successfully achieved an accuracy of 86%

Handwritten Digit Recognition
Implemented using CNNs in python. Used MNIST database for training and testing. This was then compared with the other model which didn't use CNNs.

Voice Controlled Bot
Created a voice-controlled bot using L293D motor driver module and Bluetooth HC-05 module interfaced with Arduino. Used Google voice typing for voice recognition. Bot is controlled via smartphone app.

Gesture Controlled Bot
Made a gesture-controlled bot using MPU60050 module and transmitter-receiver modules interfaced with Arduino.

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.